

=> => fil reg

FILE 'REGISTRY' ENTERED AT 15:43:40 ON 31 JUL 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 30 JUL 2008 HIGHEST RN 1037244-07-7
DICTIONARY FILE UPDATES: 30 JUL 2008 HIGHEST RN 1037244-07-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d his nofile

(FILE 'HOME' ENTERED AT 14:24:05 ON 31 JUL 2008)

FILE 'HCAPLUS' ENTERED AT 14:24:17 ON 31 JUL 2008

L1 1 SEA ABB=ON PLU=ON US20060183858/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 14:24:46 ON 31 JUL 2008

L2 7 SEA ABB=ON PLU=ON (582309-50-0/BI OR 655784-97-7/BI OR
680224-32-2/BI OR 774242-13-6/BI OR 774242-14-7/BI OR
774242-15-8/BI OR 774242-16-9/BI)
D SCA

L3 358793 SEA ABB=ON PLU=ON PACR/PCT
L4 29097 SEA ABB=ON PLU=ON L3 AND SI/ELS
L5 5 SEA ABB=ON PLU=ON L2 AND L4
L6 5617 SEA ABB=ON PLU=ON L4 AND GRAFT/CNS
L7 5 SEA ABB=ON PLU=ON L2 AND L6
L8 20880 SEA ABB=ON PLU=ON PC/PCT
L9 90307 SEA ABB=ON PLU=ON PA/PCT
L10 49 SEA ABB=ON PLU=ON L6 AND (L8 OR L9)

FILE 'HCAPLUS' ENTERED AT 15:19:57 ON 31 JUL 2008

L11 2568 SEA ABB=ON PLU=ON L6
L12 2 SEA ABB=ON PLU=ON L7
L13 1954 SEA ABB=ON PLU=ON (POLYSILOXANE? OR POLYORGANOSILOXANE?
OR POLY(W)ORGANOSILOXANE? OR POLY(W)ORGANO(W)SILOXANE?) (A)
(ACRYLIC OR ACRYLATE)
L14 66 SEA ABB=ON PLU=ON ((SILICON OR SI) (A) (ACRYLIC OR
ACRYLATE)) (A) (RUBBER OR POLYMER OR COPOLYMER OR RESIN)
L15 QUE ABB=ON PLU=ON (GRAFT? OR MATRIX OR MATRIX###) (2A) (P
OLYMER OR COPOLYMER OR RESIN OR RUBBER)
L16 370 SEA ABB=ON PLU=ON (L13 OR L14) AND L15

July 31, 2008

10/549,708

2

L17 QUE ABB=ON PLU=ON PART OR PERCENT? OR WEIGHT OR WT# OR
MASS
L18 1395 SEA ABB=ON PLU=ON (L11 OR L16) AND L17
L19 QUE ABB=ON PLU=ON L17(5A) (ACRYLATE OR METHACRYLATE OR
ACRYLIC OR METHACRYLIC)
L20 QUE ABB=ON PLU=ON L17(5A)GRAFT
L21 QUE ABB=ON PLU=ON L17(5A) (ORGANOSILOXANE OR SILOXANE
OR ORGANO(W) SILOXANE)
L22 435 SEA ABB=ON PLU=ON L18 AND L19
L23 31 SEA ABB=ON PLU=ON L22 AND L21
L24 31 SEA ABB=ON PLU=ON L23 AND L11
L25 14 SEA ABB=ON PLU=ON L24 AND L20
L26 17 SEA ABB=ON PLU=ON L24 NOT L25
L27 10 SEA ABB=ON PLU=ON L24 AND L16
L28 6 SEA ABB=ON PLU=ON L25 AND L27
L29 4 SEA ABB=ON PLU=ON L26 AND L27
L30 8 SEA ABB=ON PLU=ON L25 NOT L28
L31 13 SEA ABB=ON PLU=ON L26 NOT L29

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 15:43:42 ON 31 JUL 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 31 Jul 2008 VOL 149 ISS 5

FILE LAST UPDATED: 30 Jul 2008 (20080730/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l28 ibib abs hitstr hitind 1-6

L28 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:151206 HCAPLUS Full-text

DOCUMENT NUMBER: 144:213590

TITLE: Process for producing polyorganosiloxane latex with controlled emulsifier amounts and particle diameter for graft copolymers and resin compositions

INVENTOR(S): Takaki, Akira; Michinobu, Takao; Shibata, Takao

PATENT ASSIGNEE(S): Kaneka Corporation, Japan

SOURCE: PCT Int. Appl., 25 pp.

DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 Japanese
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006016490	A1	20060216	WO 2005-JP13981	20050729

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2004-235602 A
 20040812

AB The present invention relates to a process for producing a polyorganosiloxane latex with particle diameter $\leq 0.075 \mu\text{m}$ using small amts. of an emulsifying agent and an acid catalyst without using a siloxane crosslinking agent. The process is characterized by heating to $\geq 60^\circ$ an aqueous solution containing 0.1-20 parts a seed polymer which is hydrophilic and swells in organosiloxanes and 0.5-7.5 parts an acid catalyst and then continuously adding thereto an emulsion comprising a mixture of an organosiloxane and a bifunctional-siloxane graft crosslinking agent, an emulsifying agent, and water. Thus, 10 parts Bu acrylate was polymerized in the presence of 8 parts sodium dodecylbenzenesulfonate for 1 h, Bu acrylate 90, tert-dodecylmercaptan 27, and p-menthanehydroperoxide 0.1 parts were added therein for 3 h and polymerized for 2 h to give a latex with volume average particle diameter $0.04 \mu\text{m}$, hydrophilicity 80%, and swelling degree 10, 2 parts of which was mixed with 450 parts water and 2 parts dodecylbenzenesulfonic acid and heated at 80° , water 150, sodium dodecylbenzenesulfonate 0.5, octamethylcyclotetrasiloxane 97, and 3-methacryloyloxypropylmethyldimethoxysilane 1 parts were added therein for 3 h and heated at 80° for 2 h, adjusted pH at 6.4 using sodium hydroxide to give a copolymer latex with volume average particle diameter $0.025 \mu\text{m}$, 85 parts of which was mixed with 250 parts and heated at 60° , sodium formaldehydesulfoxylate 0.2, ethylenediamine tetraacetic acid disodium salt 0.01, and copper sulfate 0.0025 parts were added therein, acrylonitrile 4, styrene 11, and cumenehydroperoxide 0.03 parts were added therein for 2 h and stirred for 2 h to give a graft copolymer, 0.1 parts of which was mixed with 99.9 parts polystyrene, kneaded, and injection-molded to give a test piece, showing good mold releasability.

IT 875919-22-5P 875919-23-6P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of polyorganosiloxane latexes with controlled emulsifier

amts. and particle diameter for graft copolymers
and resin compns.)

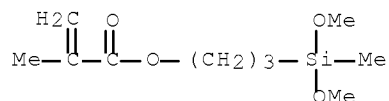
RN 875919-22-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester,
polymer with butyl 2-propenoate, ethenylbenzene,
2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane and 2-propenenitrile,
graft (CA INDEX NAME)

CM 1

CRN 14513-34-9

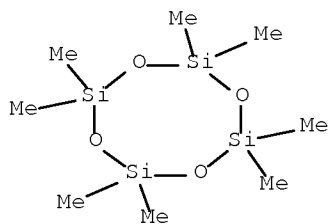
CMF C10 H20 O4 Si



CM 2

CRN 556-67-2

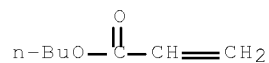
CMF C8 H24 O4 Si4



CM 3

CRN 141-32-2

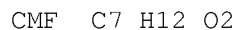
CMF C7 H12 O2

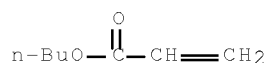


CM 4

CRN 107-13-1

CMF C3 H3 N

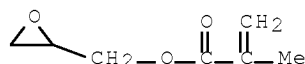




CM 4

CRN 106-91-2

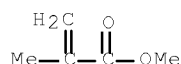
CMF C7 H10 O3



CM 5

CRN 80-62-6

CMF C5 H8 O2



- CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 39
- ST process producing polyorganosiloxane latex controlled emulsifier
particle diam; graft copolymer resin
compn; acrylic polysiloxane graft
copolymer prepn; polystyrene acrylic
polysiloxane graft copolymer compn
- IT Polysiloxanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(graft polymers, vinyl polymer-;
preparation of polyorganosiloxane latexes with controlled emulsifier
amts. and particle diameter for graft copolymers
and resin compns.)
- IT Silicone rubber, preparation
RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(intermediate; preparation of polyorganosiloxane latexes with
controlled emulsifier amts. and particle diameter for graft
copolymers and resin compns.)
- IT Silicone rubber, preparation
RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(methacryloyloxypropyldimethoxymethylsilane-
octamethylcyclotetrasiloxane, intermediate; preparation of
polyorganosiloxane latexes with controlled emulsifier amts. and
particle diameter for graft copolymers and
resin compns.)
- IT Polyesters, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered

material use); USES (Uses)
(preparation of polyorganosiloxane latexes with controlled emulsifier
amts. and particle diameter for graft copolymers
and resin compns.)

IT Acrylic polymers, preparation

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
TEM (Technical or engineered material use); PREP (Preparation); USES
(Uses)

(siloxane-, graft; preparation of polyorganosiloxane latexes
with controlled emulsifier amts. and particle diameter for
graft copolymers and resin compns.)

IT Plastics, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered
material use); USES (Uses)

(thermoplastics; preparation of polyorganosiloxane latexes with
controlled emulsifier amts. and particle diameter for graft
copolymers and resin compns.)

IT 875919-22-5P 875919-23-6P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
TEM (Technical or engineered material use); PREP (Preparation); USES
(Uses)

(preparation of polyorganosiloxane latexes with controlled emulsifier
amts. and particle diameter for graft copolymers
and resin compns.)

IT 9003-53-6, HF 77 25038-59-9, Bellpet EFG 85A, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered
material use); USES (Uses)

(preparation of polyorganosiloxane latexes with controlled emulsifier
amts. and particle diameter for graft copolymers
and resin compns.)

IT 26967-37-3P, 3-Methacryloyloxypropyldimethoxymethylsilane-
octamethylcyclotetrasiloxane copolymer

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)

(rubber, intermediate; preparation of polyorganosiloxane latexes with
controlled emulsifier amts. and particle diameter for graft
copolymers and resin compns.)

IT 9003-49-0P, Butyl acrylate homopolymer

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)

(seed polymer; preparation of polyorganosiloxane latexes with
controlled emulsifier amts. and particle diameter for graft
copolymers and resin compns.)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L28 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:366130 HCAPLUS Full-text

DOCUMENT NUMBER: 134:354005

TITLE: Impact- and weather-resistant polyester-based
thermoplastic resin compositions

INVENTOR(S): Ito, Koichi; Osuga, Masahiro; Sekita, Mari

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 2001139780	A	20010522	JP 1999-319584	199911 10
PRIORITY APPLN. INFO.:			JP 1999-319584	199911 10

AB The compns. comprising (A) 60-99 parts polyester-based mixts. containing thermoplastic resins selected from polycarbonates, styrene polymers, Me methacrylate-styrene polymers, alkyl (meth)acrylate polymers, acrylonitrile-styrene polymers, and polyphenylene ether polymers and (B) 1-40 parts graft polymers manufactured from siloxane -alkyl (meth)acrylate composite rubbers and epoxy-containing vinyl compds. (A + B = 100) are manufactured Thus, a composition comprising PBT (Tufpet N 1000) 90, a polycarbonate (Novarex 7025A) 10, and tetraethoxysilane- γ -methacryloyloxypropyldimethoxymethylsilane-octamethylcyclotetrasiloxane-Bu acrylate-allyl methacrylate -glycidyl methacrylate graft copolymer 10 parts was injection-molded to give a test piece showing Izod impact strength at +23° and -30°, 245 and 167 J/m, resp., and good heat resistance.

IT 159421-20-2P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(impact- and weather-resistant polyester-based thermoplastic resin compns.)

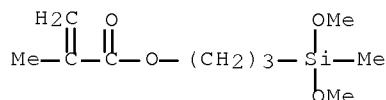
RN 159421-20-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, octamethylcyclotetrasiloxane, oxiranylmethyl 2-methyl-2-propenoate, 2-propenyl 2-methyl-2-propenoate and silicic acid (H₄SiO₄) tetraethyl ester, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

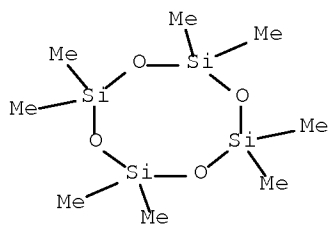
CMF C10 H20 O4 Si



CM 2

CRN 556-67-2

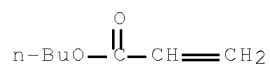
CMF C8 H24 O4 Si4



CM 3

CRN 141-32-2

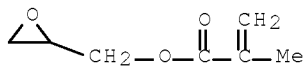
CMF C7 H12 O2



CM 4

CRN 106-91-2

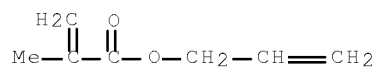
CMF C7 H10 O3



CM 5

CRN 96-05-9

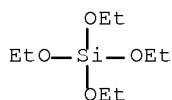
CMF C7 H10 O2



CM 6

CRN 78-10-4

CMF C8 H20 O4 Si



IC ICM C08L067-00
 ICS C08L025-08; C08L033-06; C08L051-04; C08L069-00; C08L083-10
 CC 37-6 (Plastics Manufacture and Processing)
 ST polyester acrylic silicone rubber epoxy graft;
 impact resistance polyester rubber blend; PBT polycarbonate rubber
 blend weather resistance
 IT Epoxy resins, preparation
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
 (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)
 (polysiloxane-, acrylic-silicate-, graft;
 impact- and weather-resistant polyester-based thermoplastic resin
 comps.)
 IT 159421-20-2P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
 (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)
 (impact- and weather-resistant polyester-based thermoplastic
 resin comps.)

L28 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:768115 HCAPLUS Full-text

DOCUMENT NUMBER: 130:53137

TITLE: Silicone-modified acrylic rubber
 particles, their graft
 copolymer particles, and impact- and
 weather-resistant thermoplastic compositions
 therefrom

INVENTOR(S): Miyatake, Nobuo; Yoshino, Hiroki; Hosoi, Hideki;
 Hatano, Takanori

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 10316724	A	19981202	JP 1997-131403	199705 21
PRIORITY APPLN. INFO.:			JP 1997-131403	199705 21

AB Title rubber particles (Q) with silicone rubber content ≤50%, are obtained by
 (1) graft copolymn. of (A) 45-5000 parts silicone rubber components prepared
 from low-mol. weight organosiloxanes 75-100, polyfunctional silanes 0-10, and
 copolymerizable silanes 0-15% with (B) 100 parts acrylic rubber particles

prepared from (B1) C1-12 alkyl acrylates and/or C4-12 alkyl methacrylates 65-99.9, (B2) polyfunctional monomers having ≥ 2 unsatd. groups 0-5, (B3) monomers having unsatd. groups and reactive silyl 0.1-10, and (B4) monomers having unsatd. groups 0-20%, (2) copolymer of the resultant modified acrylic rubber particles with (C) acrylic rubber components prepared from B1 65-99.8, B2 0.1-5, B3 0.1-10, B4 0-20%, and (3) reaction for forming chemical bonds between A and C at pH ≤ 5.0 . Title graft copolymer particles, useful for impact modifiers, are obtained by graft copolymering vinyl monomers onto Q or copolymering 5-95% Q with 5-95% of (90-99.9):(0.1-10) monomer mixtures of vinyl monomers and B3 and subsequently carrying out the reaction. The components contain thermoplastic resins and 2-150 phr of the graft copolymer particles. Thus, 35 parts octamethylcyclotetrasiloxane and 0.7 part tetraethoxysilane were copolymerized with acrylic rubber particles prepared from Bu acrylate 35, allyl methacrylate 0.18, and γ -methacryloyloxypropyltrimethoxysilane 0.35 part and subsequently copolymerized with styrene 21, acrylonitrile 9, and γ -methacryloyloxypropyldimethoxymethylsilane 0.35 part to give a graft copolymer showing average particle diameter 260 nm and gel content 97%. Then, a composition (rubber content 25%) comprising the graft copolymer and acrylonitrile-styrene copolymer was injection-molded to give a test piece showing Izod impact strength (ASTM D 256) 23 kg-cm/cm initially and 20 kg-cm/cm after 500-h weathering test.

IT 189073-72-1P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-methyl methacrylate-octamethylcyclotetrasiloxane-tetraethoxysilane graft copolymer 217300-07-7P, Acrylonitrile-allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-styrene-tetraethoxysilane graft copolymer 217300-08-8P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-methyl methacrylate-octamethylcyclotetrasiloxane graft copolymer 217300-09-9P, Acrylonitrile-allyl methacrylate-butyl acrylate-methacrylic acid- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-styrene-tetraethoxysilane graft copolymer
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PREP (Preparation); USES (Uses)
 (weather-resistant thermoplastic resin components containing acrylic polysiloxane graft copolymer particles as impact modifiers)

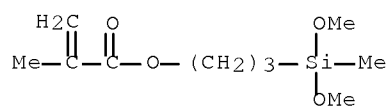
RN 189073-72-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, octamethylcyclotetrasiloxane, 2-propenyl 2-methyl-2-propenoate, silicic acid (H4SiO4) tetraethyl ester and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

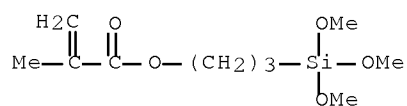
CMF C10 H20 O4 Si



CM 2

CRN 2530-85-0

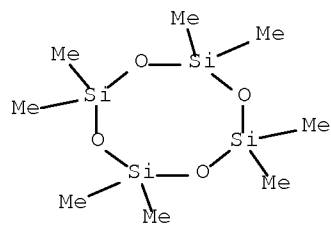
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

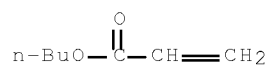
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

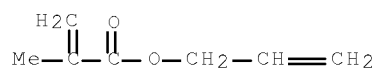
CMF C7 H12 O2



CM 5

CRN 96-05-9

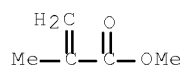
CMF C7 H10 O2



CM 6

CRN 80-62-6

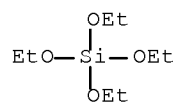
CMF C5 H8 O2



CM 7

CRN 78-10-4

CMF C8 H20 O4 Si



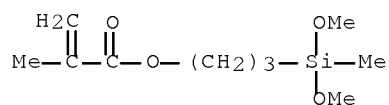
RN 217300-07-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, ethenylbenzene, octamethylcyclotetrasiloxane, 2-propenenitrile, 2-propenyl 2-methyl-2-propenoate, silicic acid (H₄SiO₄) tetraethyl ester and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

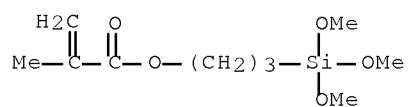
CMF C10 H20 O4 Si



CM 2

CRN 2530-85-0

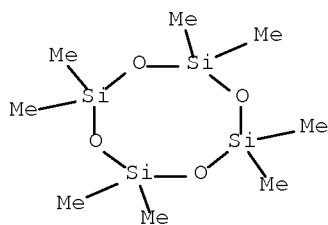
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

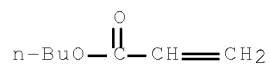
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 107-13-1

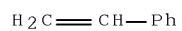
CMF C3 H3 N



CM 6

CRN 100-42-5

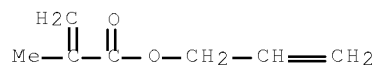
CMF C8 H8



CM 7

CRN 96-05-9

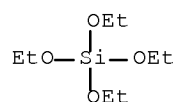
CMF C7 H10 O2



CM 8

CRN 78-10-4

CMF C8 H20 O4 Si



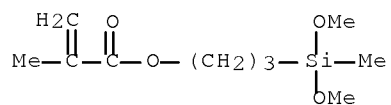
RN 217300-08-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, octamethylcyclotetrasiloxane, 2-propenyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

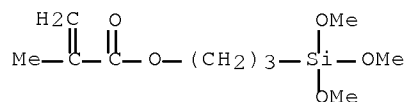
CMF C10 H20 O4 Si



CM 2

CRN 2530-85-0

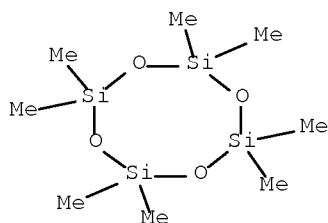
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

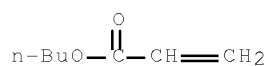
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

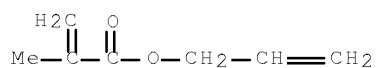
CMF C7 H12 O2



CM 5

CRN 96-05-9

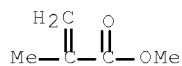
CMF C7 H10 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



RN 217300-09-9 HCAPLUS

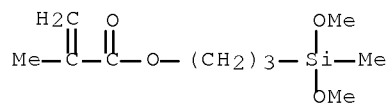
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate,
 ethenylbenzene, octamethylcyclotetrasiloxane, 2-propenenitrile,

2-propenyl 2-methyl-2-propenoate, silicic acid (H₄SiO₄) tetraethyl ester and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

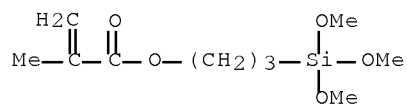
CMF C10 H20 O4 Si



CM 2

CRN 2530-85-0

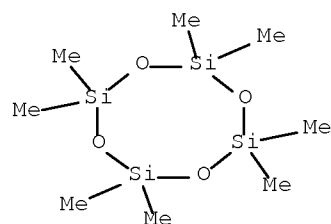
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

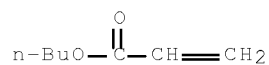
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 107-13-1

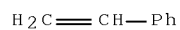
CMF C3 H3 N



CM 6

CRN 100-42-5

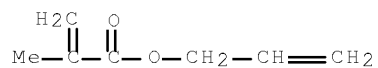
CMF C8 H8



CM 7

CRN 96-05-9

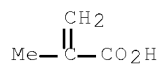
CMF C7 H10 O2



CM 8

CRN 79-41-4

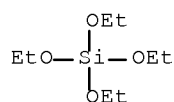
CMF C4 H6 O2



CM 9

CRN 78-10-4

CMF C8 H20 O4 Si



- IC ICM C08F285-00
ICS C08F291-02; C08L051-00; C08L101-00
- CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 35, 39
- ST ethoxysilane octamethylcyclotetrasiloxane acrylic
polysiloxane graft copolymer;
methacryloyloxypropyltrimethoxysilane acrylic
polysiloxane rubber impact modifier;
methacryloyloxypropyldimethoxymethylsilane methacrylate weather
resistant acrylic polysiloxane; acrylonitrile
styrene copolymer acrylic polysiloxane blend
- IT Polysiloxanes, uses
RL: POF (Polymer in formulation); USES (Uses)
(acrylic, graft; weather-resistant thermoplastic resin compns.
containing acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT Acrylic rubber
Silicone rubber, preparation
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(allyl methacrylate-Bu acrylate- γ -
methacryloyloxypropyldimethoxymethylsilane- γ -
methacryloyloxypropyltrimethoxysilane-
octamethylcyclotetrasiloxane, graft; weather-resistant
thermoplastic resin compns. containing acrylic
polysiloxane graft copolymer
particles as impact modifiers)
- IT Acrylic rubber
Silicone rubber, preparation
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(allyl methacrylate-Bu acrylate- γ -
methacryloyloxypropyldimethoxymethylsilane- γ -
methacryloyloxypropyltrimethoxysilane-
octamethylcyclotetrasiloxane-tetraethoxysilane, graft;
weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT Acrylic rubber
Silicone rubber, preparation
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(allyl methacrylate-Bu acrylate- γ -
methacryloyloxypropyltrimethoxysilane-
octamethylcyclotetrasiloxane-tetraethoxysilane, graft;
weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT Impact-resistant materials
(weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)

- IT Polyesters, uses
Polyoxyphenylenes
RL: POF (Polymer in formulation); USES (Uses)
(weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT Polyamides, properties
Polycarbonates, properties
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
(weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT 189073-61-8P, Allyl methacrylate-butyl acrylate- γ -
methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-
tetraethoxysilane copolymer 189073-70-9P, Allyl methacrylate-butyl
acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -
methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-
tetraethoxysilane copolymer 217300-10-2P, Allyl methacrylate-butyl
acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -
methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane
copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(rubber; weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT 189073-72-1P, Allyl methacrylate-butyl acrylate- γ -
methacryloyloxypropyldimethoxymethylsilane- γ -
methacryloyloxypropyltrimethoxysilane-methyl methacrylate-
octamethylcyclotetrasiloxane-tetraethoxysilane graft
copolymer 217300-07-7P, Acrylonitrile-allyl
methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxyme-
thylsilane- γ -methacryloyloxypropyltrimethoxysilane-
octamethylcyclotetrasiloxane-styrene-tetraethoxysilane graft
copolymer 217300-08-8P, Allyl methacrylate-butyl
acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -
methacryloyloxypropyltrimethoxysilane-methyl methacrylate-
octamethylcyclotetrasiloxane graft copolymer
217300-09-9P, Acrylonitrile-allyl methacrylate-butyl
acrylate-methacrylic acid- γ -methacryloyloxypropyldimethoxymeth-
ylsilane- γ -methacryloyloxypropyltrimethoxysilane-
octamethylcyclotetrasiloxane-styrene-tetraethoxysilane graft
copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT 9003-53-6 9011-14-7, Poly(methyl methacrylate) 25034-86-0,
Methyl methacrylate-styrene copolymer 31621-07-5,
Acrylonitrile-N-phenylmaleimide-styrene copolymer
RL: POF (Polymer in formulation); USES (Uses)
(weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)
- IT 9002-86-2, Poly(vinyl chloride) 9003-54-7, Acrylonitrile-styrene
copolymer 24968-12-5 25747-74-4, Acrylonitrile- α -
methylstyrene copolymer 26062-94-2, 1,4-Butanediol-terephthalic

acid copolymer

RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
(weather-resistant thermoplastic resin compns. containing
acrylic polysiloxane graft
copolymer particles as impact modifiers)

L28 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:562253 HCAPLUS Full-text

DOCUMENT NUMBER: 127:221451

ORIGINAL REFERENCE NO.: 127:43161a, 43164a

TITLE: Acrylic siloxane graft thermoplastic blend with
good impact, chemical and weather resistance and
high flexural modulus

INVENTOR(S): Fujii, Hideyuki; Yanai, Sumi; Ii, Yasuaki;
Yanagase, Akira

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 09208791	A	19970812	JP 1996-319572	199611 29
JP 3218195	B2	20011015	JP 1995-313876	A 199512 01

PRIORITY APPLN. INFO.:

AB Title composition, useful for elec. appliances and automobile parts, comprises composite rubbers of polysiloxane and alkyl (meth)acrylate rubber grafted with ≥ 1 monomer selected from aromatic alkenyl compds., (meth)acrylic acid esters, and/or vinyl cyanides; and an acrylonitrile-styrene copolymer with acrylonitrile content 33-45 wt%. Thus, graft copolymer was prepared by reacting octamethylcyclotetrasiloxane and γ -methacryloyloxypropyldimethoxymethylsilane, grafting with Bu acrylate, allyl methacrylate and 1,3 butylene glycol dimethacrylate, and further grafting with acrylonitrile and styrene to give a graft copolymer, 48 parts of which was mixed with 52 parts 35/65 acrylonitrile-styrene copolymer and other additives and injection-molded to give a product showing chemical resistance (critical strain) against dioctyl phthalate 1.2 and salad oil <2.0%, resp., gloss retention 85%, ΔE 4 after 1000 h weathering test, and Izod impact strength 41 kg-cm/cm.

IT 182125-87-7P, Acrylonitrile-allyl methacrylate-butyl

acrylate-1,3-butylene glycol dimethacrylate- γ -methacryloyloxypropyldimethoxymethylsilane-octamethylcyclotetrasiloxane-styrene graft copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)

(acrylic siloxane graft thermoplastic blend with good
impact, chemical and weather resistance and high flexural modulus)

RN 182125-87-7 HCAPLUS

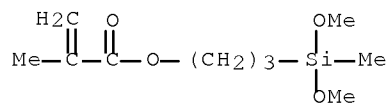
CN 2-Propenoic acid, 2-methyl-, 1,1'-(1-methyl-1,3-propanediyl) ester, polymer with butyl 2-propenoate, 3-(dimethoxymethylsilyl)propyl

2-methyl-2-propenoate, ethenylbenzene, 2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane, 2-propenenitrile and 2-propen-1-yl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 14513-34-9

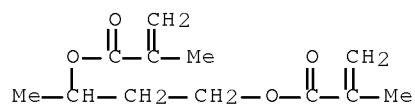
CMF C10 H20 O4 Si



CM 2

CRN 1189-08-8

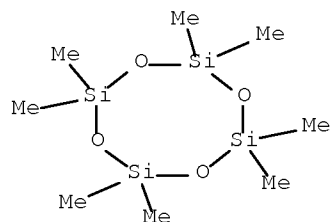
CMF C12 H18 O4



CM 3

CRN 556-67-2

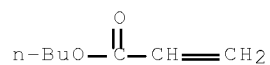
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 107-13-1

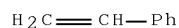
CMF C3 H3 N



CM 6

CRN 100-42-5

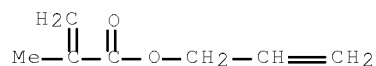
CMF C8 H8



CM 7

CRN 96-05-9

CMF C7 H10 O2



- IC ICM C08L051-00
ICS C08L025-12; C08L051-08
- CC 37-6 (Plastics Manufacture and Processing)
- ST acrylic siloxane graft copolymer impact resistance; automotive part acrylic siloxane graft blend; elec appliance acrylic siloxane graft blend; acrylonitrile styrene polymer blend chem resistance
- IT Polymer blends
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
(acrylic polysiloxane graft copolymer and styrene-acrylonitrile copolymer; acrylic siloxane graft thermoplastic blend with good impact, chemical and weather resistance and high flexural modulus)
- IT Automobiles
(parts; acrylic siloxane graft thermoplastic blend with good impact, chemical and weather resistance and high flexural modulus)
- IT Acrylic polymers, preparation
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)
(polysiloxane-; acrylic siloxane graft thermoplastic blend with good impact, chemical and weather

resistance and high flexural modulus)

IT 182125-87-7P, Acrylonitrile-allyl methacrylate-butyl
acrylate-1,3-butylene glycol dimethacrylate- γ -
methacryloyloxypropyldimethoxymethylsilane-octam
ethylcyclotetrasiloxane-styrene graft copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
(Properties); PREP (Preparation); USES (Uses)
(acrylic siloxane graft thermoplastic blend with good
impact, chemical and weather resistance and high flexural modulus)

IT 9003-54-7, Acrylonitrile-styrene copolymer
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
(acrylic siloxane graft thermoplastic blend with good
impact, chemical and weather resistance and high flexural modulus)

L28 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:442799 HCAPLUS Full-text

DOCUMENT NUMBER: 127:52032

ORIGINAL REFERENCE NO.: 127:9905a,9908a

TITLE: Acrylic siloxane-polycarbonate blends with
excellent impact resistance, surface hardness,
and pigment colorability

INVENTOR(S): Fujii, Hideyuki; Yanagii, Sumi; Fujimoto,
Masaharu; Yanagase, Akira

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 09157484	A	19970617	JP 1995-313878	199512 01
JP 3590169	B2	20041117		
PRIORITY APPLN. INFO.:			JP 1995-313878	199512 01

AB The blends, useful for automotive parts, comprise (A) graft copolymers comprising di-Me siloxane-poly[alkyl (meth)acrylate] rubbers grafted with aromatic alkenyl compds., (meth)acrylic acid esters, and/or vinyl cyanides and (B) polycarbonates (PC). The di-Me siloxanes are composed of vinyl-containing siloxanes 0.2-3 mol%, di-Me siloxanes 97-99.8 mol%, and Si atoms having ≥ 3 siloxane bonds ≤ 1 mol%. Thus, 98 parts octamethylcyclotetrasiloxane was treated with 2 parts γ -methacryloyloxypropyldimethoxymethylsilane in H₂O at 85° to give 17.7%-solid latex, 56 parts of which was grafted with Bu acrylate 63.7, allyl methacrylate 0.4, and 1,3-butylene glycol dimethacrylate 0.1 part at 60-78° in the presence of cumene hydroperoxide, and further treated with 18.4 parts acrylonitrile and 55.2 parts styrene at 60° to give a graft copolymer (A) of number-average grain size 0.13 μ m. Then, 30 parts A was blended with Iupilon S 2000F (PC) 40, 70:30 styrene-acrylonitrile copolymer 30, ADK STAB C 0.3, Ba stearate 0.4, ethylenebis(stearyl amide) 0.4, and carbon black 0.8 part, kneaded, pelletized, and injection-molded to give a specimen showing Izod impact

strength 50 at 23° and 20 kg-cm/cm at -30°, Rockwell hardness (R scale) 105, and good appearance and pigment colorability.

IT 182125-87-7, Acrylonitrile-allyl methacrylate-butyl
acrylate-1,3-butylene glycol dimethacrylate- γ -
methacryloyloxypropyldimethoxymethylsilane-
octamethylcyclotetrasiloxane-styrene graft
copolymer 182128-00-3

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(acrylic polysiloxane-polycarbonate blends for automotive parts with excellent impact resistance, surface hardness, and pigment colorability)

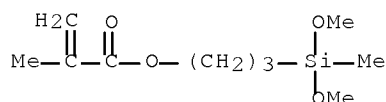
RN 182125-87-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1'-(1-methyl-1,3-propanediyl) ester, polymer with butyl 2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, ethenylbenzene, 2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane, 2-propenenitrile and 2-propen-1-yl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 14513-34-9

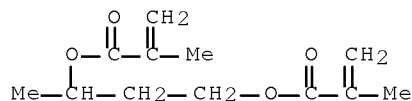
CMF C10 H20 O4 Si



CM 2

CRN 1189-08-8

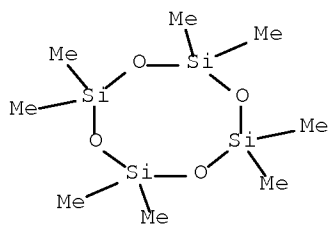
CMF C12 H18 O4



CM 3

CRN 556-67-2

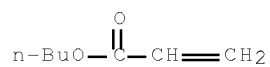
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 107-13-1

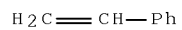
CMF C3 H3 N



CM 6

CRN 100-42-5

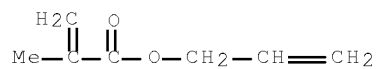
CMF C8 H8



CM 7

CRN 96-05-9

CMF C7 H10 O2



RN 182128-00-3 HCAPLUS

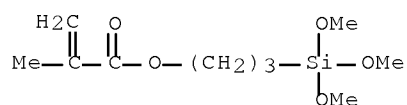
CN 2-Propenoic acid, 2-methyl-, 1-methyl-1,3-propanediyl ester, polymer

with butyl 2-propenoate, ethenylbenzene,
 octamethylcyclotetrasiloxane, 2-propenenitrile, 2-propenyl
 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl
 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2530-85-0

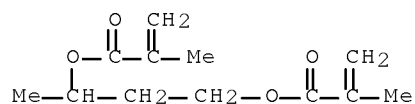
CMF C10 H20 O5 Si



CM 2

CRN 1189-08-8

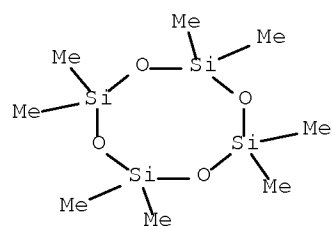
CMF C12 H18 O4



CM 3

CRN 556-67-2

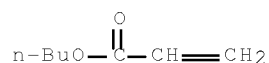
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 107-13-1

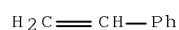
CMF C3 H3 N



CM 6

CRN 100-42-5

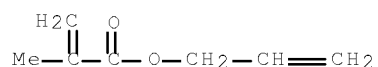
CMF C8 H8



CM 7

CRN 96-05-9

CMF C7 H10 O2



- IC ICM C08L051-00
ICS C08L025-00; C08L051-08; C08L069-00
- CC 38-3 (Plastics Fabrication and Uses)
- ST automotive part polycarbonate acrylic
siloxane blend; impact resistant acrylic siloxane
polycarbonate blend; pigment colorability polycarbonate acrylic
siloxane blend
- IT Impact-resistant materials
(acrylic polysiloxane-polycarbonate blends
for automotive parts with excellent impact resistance,
surface hardness, and pigment colorability)
- IT Polycarbonates, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)
(acrylic polysiloxane-polycarbonate blends
for automotive parts with excellent impact resistance,
surface hardness, and pigment colorability)
- IT Polymer blends
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)

(acrylic polysiloxane-polycarbonate blends
for automotive parts with excellent impact resistance,
surface hardness, and pigment colorability)

IT Polysiloxanes, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
(Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)

(acrylic, graft; acrylic polysiloxane
-polycarbonate blends for automotive parts with
excellent impact resistance, surface hardness, and pigment
colorability)

IT Automobiles

(parts; acrylic polysiloxane
-polycarbonate blends for automotive parts with
excellent impact resistance, surface hardness, and pigment
colorability)

IT 9003-54-7, Acrylonitrile-styrene copolymer 24936-68-3, Iupilon S
2000F, uses 182125-87-7, Acrylonitrile-allyl
methacrylate-butyl acrylate-1,3-butylene glycol dimethacrylate-
γ-methacryloyloxypropyldimethoxymethylsilane-
octamethylcyclotetrasiloxane-styrene graft
copolymer 182128-00-3

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)

(acrylic polysiloxane-polycarbonate blends
for automotive parts with excellent impact resistance,
surface hardness, and pigment colorability)

L28 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:442798 HCAPLUS Full-text

DOCUMENT NUMBER: 127:52031

ORIGINAL REFERENCE NO.: 127:9905a,9908a

TITLE: Acrylic polysiloxane blends
with excellent impact resistance, surface
hardness, and pigment colorability

INVENTOR(S): Yanagii, Sumi; Fujii, Hideyuki; Yanagase, Akira

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 09157483	A	19970617	JP 1995-313877	199512 01
JP 3547874	B2	20040728		
PRIORITY APPLN. INFO.:			JP 1995-313877	199512 01

AB The blends, useful for automotive parts, comprise 2 acrylic-
polydimethylsiloxane graft
copolymers with different polysiloxane amount; 1-20% and 21-40%, resp. The
graft copolymers comprise vinyl-containing di-Me siloxane-poly[alkyl
(meth)acrylate] rubbers grafted with aromatic alkenyl compds., (meth)acrylic

acid esters, and/or vinyl cyanides. Thus, 56 parts 17.7%-solid latex of 98:2 octamethylcyclotetrasiloxane (I)- γ -methacryloyloxypropyldimethoxymethylsilane (II) copolymer was grafted with Bu acrylate (III) 63.7, allyl methacrylate (IV) 0.4, and 1,3-butylene glycol dimethacrylate (V) 0.1 part at 60-78° in the presence of peroxides, and further treated with 18.4 parts acrylonitrile and 55.2 parts styrene at 60° to give a graft copolymer (A); graft polymer (B) was prepared by grafting 199 parts I-II copolymer with III 52.3, IV 0.21 and V 0.11 part at 60-78° in the presence of peroxides, and further treated with 18.5 parts acrylonitrile and 55.4 parts styrene at 60°. Then, 38 parts A was blended with B 10, 70:30 styrene-acrylonitrile copolymer 52, ADK STAB C 0.3, Ba stearate 0.4, ethylenebis(stearyl amide) 0.4, and carbon black 0.8 part, kneaded, pelletized, and injection-molded to give a specimen showing Izod impact strength 39 at 23° and 7 kg-cm/cm at -30°, Rockwell hardness (R scale) 95, and good appearance and pigment colorability.

IT 182125-87-7, Acrylonitrile-allyl methacrylate-butyl

acrylate-1,3-butylene glycol dimethacrylate- γ -methacryloyloxypropyldimethoxymethylsilane-octamethylcyclotetrasiloxane-styrene graft copolymer

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(acrylic polysiloxane blends for automotive

parts with excellent impact resistance, surface hardness, and pigment colorability)

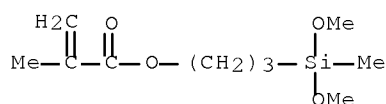
RN 182125-87-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1'-(1-methyl-1,3-propanediyl) ester,
polymer with butyl 2-propenoate, 3-(dimethoxymethylsilyl)propyl
2-methyl-2-propenoate, ethenylbenzene, 2,2,4,4,6,6,8,8-
octamethylcyclotetrasiloxane, 2-propenenitrile and 2-propen-1-yl
2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 14513-34-9

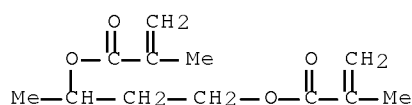
CMF C10 H20 O4 Si



CM 2

CRN 1189-08-8

CMF C12 H18 O4



July 31, 2008

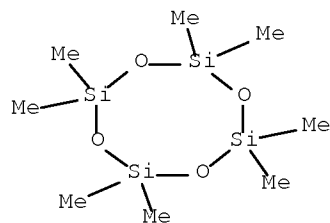
10/549,708

31

CM 3

CRN 556-67-2

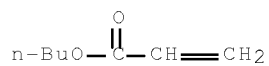
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

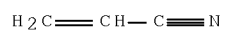
CMF C7 H12 O2



CM 5

CRN 107-13-1

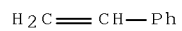
CMF C3 H3 N



CM 6

CRN 100-42-5

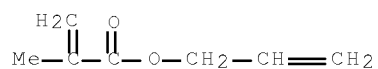
CMF C8 H8



CM 7

CRN 96-05-9

CMF C7 H10 O2



IT 191226-71-8

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(acrylic polysiloxane blends with excellent impact resistance, surface hardness, and pigment colorability)

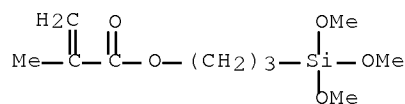
RN 191226-71-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-methyl-1,3-propanediyl ester, polymer with butyl 2-propenoate, ethenylbenzene, octamethylcyclotetrasiloxane, 2-propenenitrile, 2-propenyl 2-methyl-2-propenoate, silicic acid (H₄SiO₄) tetraethyl ester and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2530-85-0

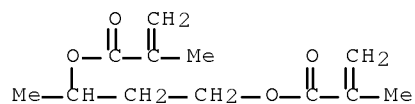
CMF C10 H20 O5 Si



CM 2

CRN 1189-08-8

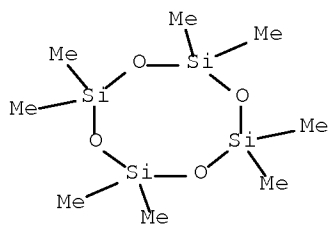
CMF C12 H18 O4



CM 3

CRN 556-67-2

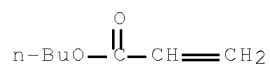
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 107-13-1

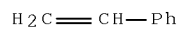
CMF C3 H3 N



CM 6

CRN 100-42-5

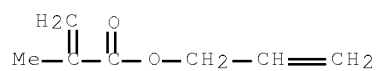
CMF C8 H8



CM 7

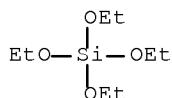
CRN 96-05-9

CMF C7 H10 O2



CM 8

CRN 78-10-4
CMF C8 H20 O4 Si



- IC ICM C08L051-00
ICS C08L025-00; C08L051-08
- CC 38-3 (Plastics Fabrication and Uses)
- ST automotive part acrylic siloxane
graft blend; impact resistant acrylic siloxane graft blend;
pigment colorability acrylic graft siloxane blend
- IT Impact-resistant materials
Polymer blends
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(acrylic polysiloxane blends with excellent
impact resistance, surface hardness, and pigment colorability)
- IT Polysiloxanes, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(acrylic, graft; acrylic polysiloxane blends
with excellent impact resistance, surface hardness, and pigment colorability)
- IT Automobiles
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(parts; acrylic polysiloxane blends
with excellent impact resistance, surface hardness, and pigment colorability)
- IT 182125-87-7, Acrylonitrile-allyl methacrylate-butyl
acrylate-1,3-butylene glycol dimethacrylate-γ-
methacryloyloxypropyldimethoxymethylsilane-
octamethylcyclotetrasiloxane-styrene graft
copolymer
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(acrylic polysiloxane blends for automotive
parts with excellent impact resistance, surface hardness,
and pigment colorability)
- IT 9003-54-7, Acrylonitrile-styrene copolymer 191226-71-8
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(acrylic polysiloxane blends with excellent
impact resistance, surface hardness, and pigment colorability)

=> d 130 ibib abs hitstr hitind 1-8

L30 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:965301 HCAPLUS Full-text
DOCUMENT NUMBER: 141:396259
TITLE: Method for producing polyorganosiloxane-

containing resin useful as flame retardant
 INVENTOR(S): Saegusa, Kazunori; Yoshimi, Tomoyuki; Tone, Hiroshi
 PATENT ASSIGNEE(S): Kaneka Corporation, Japan
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
WO 2004096876	A1	20041111	WO 2004-JP5345	20040414
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004234224	A2	20041111	AU 2004-234224	20040414
AU 2004234224	A1	20041111		
CA 2522464	A1	20041111	CA 2004-2522464	20040414
EP 1619213	A1	20060125	EP 2004-727403	20040414
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1777625	A	20060524	CN 2004-80010624	20040414
US 20060258821	A1	20061116	US 2005-553952	20051019
US 7393915	B2	20080701		
PRIORITY APPLN. INFO.:			JP 2003-123751	A 20030428
			WO 2004-JP5345	W 20040414

AB A novel method for producing a polyorganosiloxane-containing resin accompanied by reduction of a volatile siloxane is disclosed. The method for producing a polyorganosiloxane-containing resin is characterized by heat-stripping of a

polyorganosiloxane-containing resin which is in the form of slurry. Thus, 96 parts octamethylcyclotetrasiloxane and 4 parts 3-methacryloyloxypropyldimethoxymethylsilane were polymerized in the presence of dodecylbenzenesulfonic acid at 80° for 15 h to give a polyorganosiloxane latex with polymerization conversion 85%, volume average particle diameter 0.18 µm, Mw 1.60 + 105, toluene insol. content 0%, and volatile siloxane content 16%, 80 parts (solid content based) of which was graft -polymerized with 20 parts Me methacrylate to give a graft copolymer with volume average particle diameter 0.19 µm and volatile siloxane content 14%, which was diluted (15%-solids), 4 parts calcium chloride was added therein, diluted to 10%-solids slurry, and stripped at 140-150° for 30 min under 0.26-0.36 MPa, 3 parts of the resulting power was mixed with 0.4 parts Polyflon FA 500 and 100 parts Toughlon FN 1700A, kneaded at 270°, and injection-molded to give a test piece with good flame resistance and Izod impact strength 29 kJ/m2 at -10°.

IT 124659-94-5P 583024-65-1P, Allyl

methacrylate-butyl acrylate-3-mercaptopropyldimethoxymethylsilane-

methyl methacrylate-octamethylcyclotetrasiloxane graft copolymer

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);

PREP (Preparation); USES (Uses)

(flame retardant; preparation of polyorganosiloxane-containing resins useful as flame retardants)

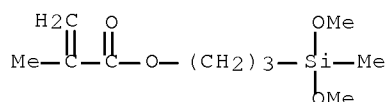
RN 124659-94-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with methyl 2-methyl-2-propenoate and 2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane, graft (CA INDEX NAME)

CM 1

CRN 14513-34-9

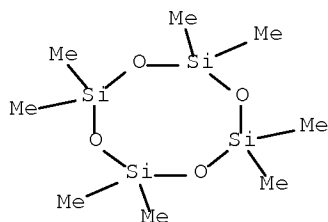
CMF C10 H20 O4 Si



CM 2

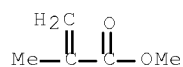
CRN 556-67-2

CMF C8 H24 O4 Si4



CM 3

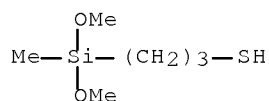
CRN 80-62-6
CMF C5 H8 O2



RN 583024-65-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, 3-(dimethoxymethylsilyl)-1-propanethiol,
octamethylcyclotetrasiloxane and 2-propenyl 2-methyl-2-propenoate,
graft (9CI) (CA INDEX NAME)

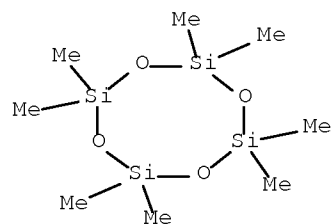
CM 1

CRN 31001-77-1
CMF C6 H16 O2 S Si



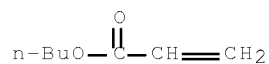
CM 2

CRN 556-67-2
CMF C8 H24 O4 Si4



CM 3

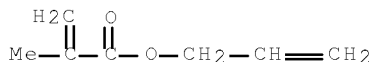
CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 96-05-9

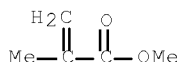
CMF C7 H10 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



IC ICM C08F283-12

ICS C08G077-34

CC 37-3 (Plastics Manufacture and Processing)

IT 124659-94-5P 583024-65-1P, Allyl

methacrylate-butyl acrylate-3-mercaptopropyltrimethoxymethylsilane-

methyl methacrylate-octamethylcyclotetrasiloxane graft copolymer

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);

PREP (Preparation); USES (Uses)

(flame retardant; preparation of polyorganosiloxane-containing resins
useful as flame retardants)REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L30 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:59185 HCAPLUS Full-text

DOCUMENT NUMBER: 132:94211

TITLE: Non-halogen flame-retardant compositions
containing polyolefins and rubber-grafted
polymers

INVENTOR(S): Ito, Koichi; Fujii, Hideyuki; Nakamura, Keiji

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000026664	A	20000125	JP 1998-199313	199807
JP 4021994	B2	20071212		14

PRIORITY APPLN. INFO.:

JP 1998-199313

199807

14

AB Title compns. with good mech. properties and flexibility comprise (A) polyolefins, (B) polyorganosiloxane-alkyl (meth)acrylate polymer composite rubbers grafted with ≥ 1 vinyl monomers, and (C) non-halogen flame retardants. Thus, 268 parts siloxane latex (75 parts as solid, prepared by polymerizing $\text{Si}(\text{OEt})_4$ 2, γ -methacryloyloxypropyldimethoxymethylsilane 0.5, and octamethylcyclotetrasiloxane 97.5 parts) was further polymerized with 9.7 parts Bu acrylate and 0.3 part allyl methacrylate to obtain composite rubber latex, which was then polymerized with 15 parts Me methacrylate. The obtained graft copolymer (30 parts) was roll kneaded with Mitsubishi Polyethy LD ZF30U (low-d. polyethylene) 35, Tafmer P880 (ethylene-propylene rubber) 35, vinyltrimethoxysilane-treated $\text{Mg}(\text{OH})_2$ 60, TiO_2 5, dicumyl peroxide 2, stearic acid 0.5, Irganox 1010 (hindered phenol antioxidant) 2, and Seenox 412S (S-based antioxidant) 4 parts and compression-molded to give a sheet showing tensile strength 11.5 MPa and elongation 480% with good low-temperature elasticity and no tackiness.

IT 173320-66-6P 173320-67-7P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)

(compns. containing polyolefins, acrylic silicone rubber-grafted polymers, and nonhalogen fireproofing agents with improved mech. strength and flexibility)

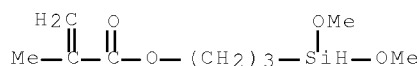
RN 173320-66-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxysilyl)propyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, octamethylcyclotetrasiloxane and 2-propenyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 100577-12-6

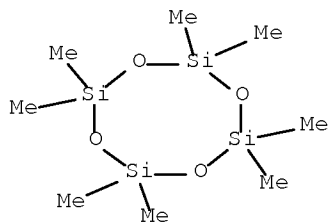
CMF C9 H18 O4 Si



CM 2

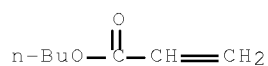
CRN 556-67-2

CMF C8 H24 O4 Si4



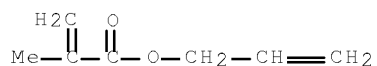
CM 3

CRN 141-32-2
 CMF C7 H12 O2



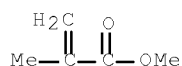
CM 4

CRN 96-05-9
 CMF C7 H10 O2



CM 5

CRN 80-62-6
 CMF C5 H8 O2

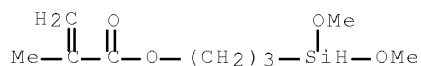


RN 173320-67-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxysilyl)propyl ester, polymer
 with butyl 2-propenoate, methyl 2-methyl-2-propenoate,
 octamethylcyclotetrasiloxane, 2-propenyl 2-methyl-2-propenoate and
 silicic acid (H4SiO4) tetraethyl ester, graft (9CI) (CA INDEX NAME)

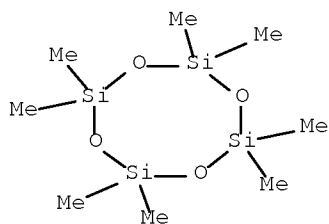
CM 1

CRN 100577-12-6
 CMF C9 H18 O4 Si



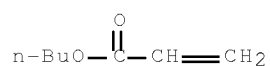
CM 2

CRN 556-67-2
 CMF C8 H24 O4 Si4



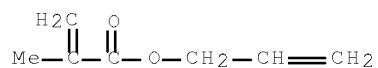
CM 3

CRN 141-32-2
 CMF C7 H12 O2



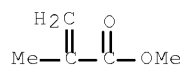
CM 4

CRN 96-05-9
 CMF C7 H10 O2



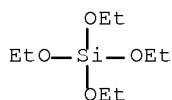
CM 5

CRN 80-62-6
 CMF C5 H8 O2



CM 6

CRN 78-10-4
 CMF C8 H20 O4 Si



IC ICM C08L023-00
 ICS C08K003-22; C08K003-26; C08K005-49; C08L051-08; C08L053-02;
 H01B003-44
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 39
 IT 173320-66-6P 173320-67-7P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
 (Properties); PREP (Preparation); USES (Uses)
 (compns. containing polyolefins, acrylic silicone rubber-grafted
 polymers, and nonhalogen fireproofing agents with improved mech.
 strength and flexibility)

L30 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1998:758217 HCAPLUS Full-text
 DOCUMENT NUMBER: 130:53090
 TITLE: Silicone-modified acrylic rubber particles and
 graft copolymer particles and thermoplastic
 resin compositions containing the same with good
 weather and impact resistance and moldability
 INVENTOR(S): Miyatake, Nobuo; Yoshino, Hiroki; Hosoi, Hideki
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 10310616	A	19981124	JP 1997-121199	199705 12
PRIORITY APPLN. INFO.:			JP 1997-121199	199705 12

AB The title particles are prepared by grafting and crosslinking, wherein 100 parts acrylic rubber particles obtained by copolymerizing 99.8% C1-12-alkyl acrylate and/or C4-12-alkyl methacrylate, 0.1-5% polyfunctional monomers having ≥ 2 polymerizable unsaturated groups, 0.1-10% monomers having polymerizable unsaturated groups and reactive silyl groups, and 0-20% comonomers are graft polymerized with 45-5000 parts silicone rubber-forming components comprising 80-99.9% low-molecular-weight organosiloxanes, 0.1-10% reactive silanes having polymerizable unsaturated groups, and 0-15% silane comonomers, followed by radical crosslinking of a portion of the silicone rubber component to obtain the title particles with rubber component content $\geq 30\%$. Emulsion-polymerized Bu acrylate-allyl methacrylate- γ -methacryloyloxypropyltrimethoxysilane copolymer was grafted with octamethylcyclotetrasiloxane and γ -methacryloyloxypropyldimethoxymethylsilane then crosslinked in the presence of cumene hydroperoxide.

IT 217300-08-8P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-methyl methacrylate-octamethylcyclotetrasiloxane graft copolymer 217467-25-9P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer 217467-26-0P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer 217467-27-1P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-p-vinylphenyldimethoxymethylsilane graft copolymer 217467-28-2P, Acrylonitrile-methacrylic acid-styrene-allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer 217467-29-3P, Acrylonitrile-styrene-allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(silicone-modified acrylic rubber particles and graft copolymer particles and thermoplastic resin comps. containing the same with good weather and impact resistance and moldability)

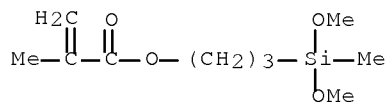
RN 217300-08-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, octamethylcyclotetrasiloxane, 2-propenyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

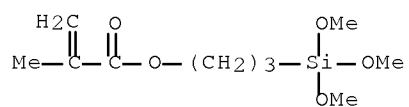
CMF C10 H20 O4 Si



CM 2

CRN 2530-85-0

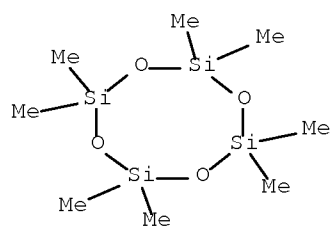
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

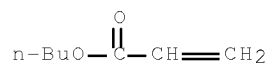
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

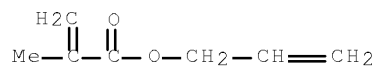
CMF C7 H12 O2



CM 5

CRN 96-05-9

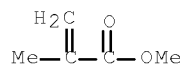
CMF C7 H10 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



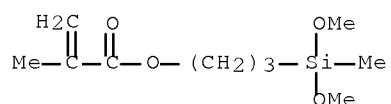
RN 217467-25-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester,
polymer with butyl 2-propenoate, octamethylcyclotetrasiloxane,
2-propenyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl
2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

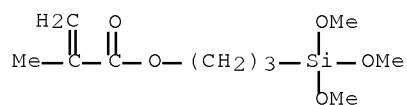
CMF C10 H20 O4 Si



CM 2

CRN 2530-85-0

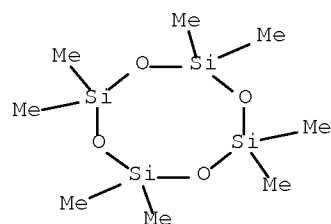
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

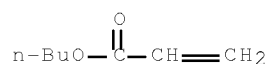
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

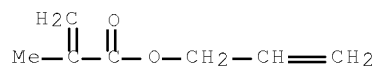
CMF C7 H12 O2



CM 5

CRN 96-05-9

CMF C7 H10 O2



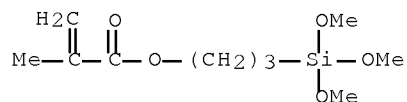
RN 217467-26-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with butyl
2-propenoate, octamethylcyclotetrasiloxane and 3-
(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA
INDEX NAME)

CM 1

CRN 2530-85-0

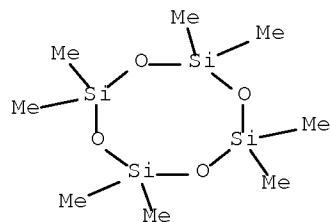
CMF C10 H20 O5 Si



CM 2

CRN 556-67-2

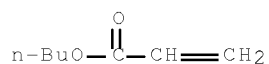
CMF C8 H24 O4 Si4



CM 3

CRN 141-32-2

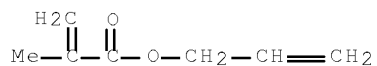
CMF C7 H12 O2



CM 4

CRN 96-05-9

CMF C7 H10 O2



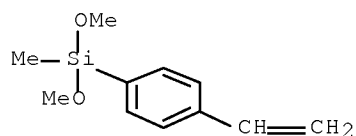
RN 217467-27-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with butyl 2-propenoate, (4-ethenylphenyl)dimethoxymethylsilane, octamethylcyclotetrasiloxane and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 17998-86-6

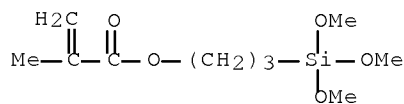
CMF C11 H16 O2 Si



CM 2

CRN 2530-85-0

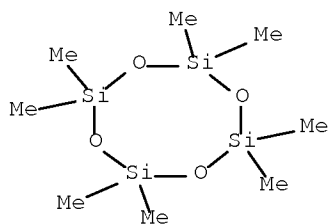
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

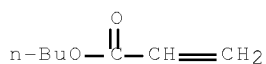
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

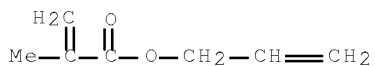
CMF C7 H12 O2



CM 5

CRN 96-05-9

CMF C7 H10 O2



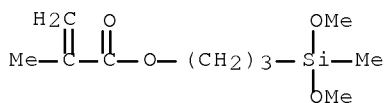
RN 217467-28-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, ethenylbenzene, octamethylcyclotetrasiloxane, 2-propenenitrile, 2-propenyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

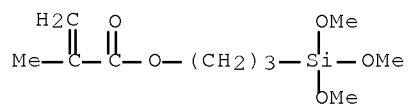
CRN 14513-34-9

CMF C10 H20 O4 Si



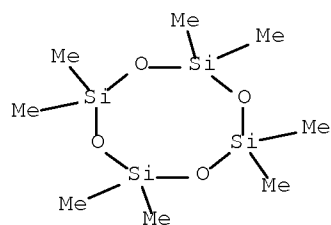
CM 2

CRN 2530-85-0
 CMF C10 H20 O5 Si



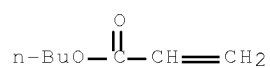
CM 3

CRN 556-67-2
 CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2
 CMF C7 H12 O2



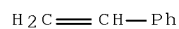
CM 5

CRN 107-13-1
 CMF C3 H3 N



CM 6

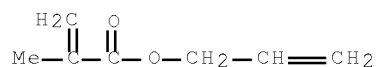
CRN 100-42-5
 CMF C8 H8



CM 7

CRN 96-05-9

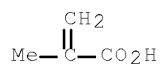
CMF C7 H10 O2



CM 8

CRN 79-41-4

CMF C4 H6 O2



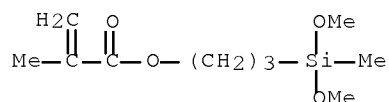
RN 217467-29-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester,
 polymer with butyl 2-propenoate, ethenylbenzene,
 octamethylcyclotetrasiloxane, 2-propenenitrile, 2-propenyl
 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl
 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

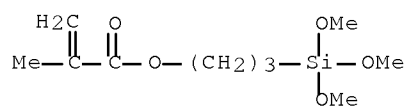
CMF C10 H20 O4 Si



CM 2

CRN 2530-85-0

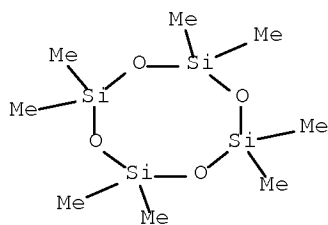
CMF C10 H20 O5 Si



CM 3

CRN 556-67-2

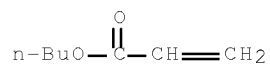
CMF C8 H24 O4 Si4



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 107-13-1

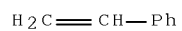
CMF C3 H3 N



CM 6

CRN 100-42-5

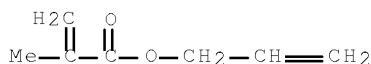
CMF C8 H8



CM 7

CRN 96-05-9

CMF C7 H10 O2



IC ICM C08F291-00

ICS C08L051-00; C08L083-04; C08L101-00

CC 37-6 (Plastics Manufacture and Processing)

IT 217300-08-8P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-methyl methacrylate-octamethylcyclotetrasiloxane graft copolymer 217467-25-9P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer 217467-26-0P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer 217467-27-1P, Allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-p-vinylphenyldimethoxymethylsilane graft copolymer 217467-28-2P, Acrylonitrile-methacrylic acid-styrene-allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer 217467-29-3P, Acrylonitrile-styrene-allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyldimethoxymethylsilane- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane graft copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(silicone-modified acrylic rubber particles and graft copolymer particles and thermoplastic resin compns. containing the same with good weather and impact resistance and moldability)

L30 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:526740 HCAPLUS Full-text

DOCUMENT NUMBER: 127:176946

ORIGINAL REFERENCE NO.: 127:34291a,34294a

TITLE: Determination of Molecular Weight and Compositional Heterogeneity of a Graft Copolymer by a Combination of SEC and LALLS

AUTHOR(S): Mrkvickova, Libuse

CORPORATE SOURCE: Institute of Macromolecular Chemistry, Academy of Sciences of Czech Republic, Prague, 162 06, Czech Rep.

SOURCE: Macromolecules (1997), 30(17), 5175-5177
CODEN: MAMOBX; ISSN: 0024-9297

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB PMMA grafted with poly(dimethylsiloxane) was investigated by size exclusion chromatog. coupled with refractometric and low-angle laser light scattering detectors. Using PhMe and THF as consecutive eluents, the variation of chemical composition and mol. weight of individual copolymer components as a function of hydrodynamic volume were measured. The mol. weight distribution and heterogeneity parameters were obtained.

IT 161512-62-5, Dimethyl siloxane-methyl methacrylate graft copolymer

RL: PRP (Properties)

(determination of mol. weight and compositional heterogeneity of Me methacrylate-siloxane graft copolymer by combined methods)

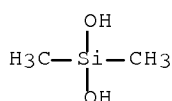
RN 161512-62-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dimethylsilanediol, graft (CA INDEX NAME)

CM 1

CRN 1066-42-8

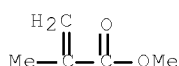
CMF C2 H8 O2 Si



CM 2

CRN 80-62-6

CMF C5 H8 O2



CC 36-4 (Physical Properties of Synthetic High Polymers)

ST PMMA siloxane graft mol wt. heterogeneity

IT Molecular weight

Molecular weight distribution

Size-exclusion chromatography

(determination of mol. weight and compositional heterogeneity of Me methacrylate-siloxane graft copolymer by combined methods)

IT Light scattering

(low-angle laser; determination of mol. weight and compositional heterogeneity of Me methacrylate-siloxane graft copolymer by combined methods)

IT 161512-62-5, Dimethyl siloxane-methyl methacrylate graft copolymer

RL: PRP (Properties)

(determination of mol. weight and compositional heterogeneity of

Me methacrylate-siloxane graft copolymer by combined methods)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:361003 HCAPLUS Full-text

DOCUMENT NUMBER: 127:18118

ORIGINAL REFERENCE NO.: 127:3661a,3664a

TITLE: Vinyl chloride graft copolymers and their manufacture

INVENTOR(S): Shigemitsu, Minoru; Amano, Tadashi

PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 09087342	A	19970331	JP 1995-270579	19950925
JP 3402016	B2	20030428		
PRIORITY APPLN. INFO.:			JP 1995-270579	19950925

AB Vinyl chloride graft copolymers having impact and weather resistance and desirable mech. properties are manufactured by (1) radically polymerizing alkyl (meth)acrylate monomers, a crosslinking agent, and a graft linker in a polysiloxane rubber latex to form a polysiloxane- polyalkyl (meth)acrylate composite rubber having a weight ratio of siloxane to acrylic polymer 90:10 to 10:90, (2) grafting vinyl monomers to the composite rubber in a weight ratio of the composite rubber to the vinyl monomers of 95:5 to 30:70 to prepare a silicone acrylic graft copolymer, (3) suspension grafting 85-99 parts of vinyl chloride or a vinyl chloride mixture with other monomers in a minor amount to 1-15 parts of the silicon acrylic graft copolymer in water-methanol suspension containing polyvinyl alc. of average polymerization degree 150-600 and saponification degree 20-55 mol%. Thus octamethylcyclotetrasiloxane 40, tetraethoxysilane 0.5, and γ -methacryloyloxypropyldimethoxymethylsilane 0.2 part were hydrolytically polymerized to give a siloxane rubber latex, to which Bu acrylate 150, allyl methacrylate 6, and ethylene glycol dimethacrylate 1.5 parts were added and polymerized to give a composite rubber, and to which 50 parts of Me methacrylate was grafted. Vinyl chloride 30 kg was added to a reactor containing a suspension comprising deionized water 58 kg, polyvinyl alc. (saponification degree 80 mol%) 39.6 g, hydroxypropylmethylcellulose 26.4 g, and a water-MeOH suspension of the above graft copolymer (water 1 kg, MeOH 1kg, polyvinyl alc. 30 g, the graft copolymer 1.7 kg) 3730 g and polymerized to give the polymer of this invention which had average Izod impact strength 145 kg.cm/cm².

IT 189633-27-0P

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(vinyl chloride graft copolymers with impact and weather resistance)

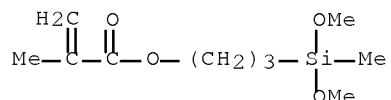
RN 189633-27-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl 2-propenoate, chloroethene, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, octamethylcyclotetrasiloxane, 2-propenyl 2-methyl-2-propenoate and silicic acid (H₄SiO₄) tetraethyl ester, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

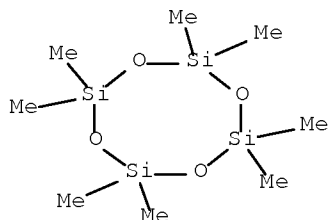
CMF C10 H20 O4 Si



CM 2

CRN 556-67-2

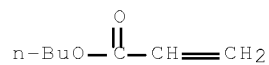
CMF C8 H24 O4 Si4



CM 3

CRN 141-32-2

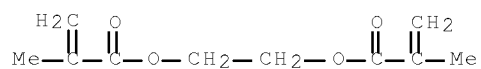
CMF C7 H12 O2



CM 4

CRN 97-90-5

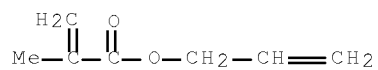
CMF C10 H14 O4



CM 5

CRN 96-05-9

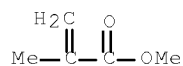
CMF C7 H10 O2



CM 6

CRN 80-62-6

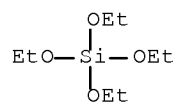
CMF C5 H8 O2



CM 7

CRN 78-10-4

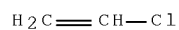
CMF C8 H20 O4 Si



CM 8

CRN 75-01-4

CMF C2 H3 Cl



IC ICM C08F285-00

ICS C08F002-18; C08L027-06; C08L051-00

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 37

IT 189633-27-0F

RL: IMF (Industrial manufacture); PRP (Properties); PREP
(Preparation)
(vinyl chloride graft copolymers with impact and weather
resistance)

L30 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:740936 HCAPLUS Full-text
DOCUMENT NUMBER: 123:145678
ORIGINAL REFERENCE NO.: 123:25964h,25965a
TITLE: Fire- and heat-resistant antistatic plastic
compositions with good sliding properties
INVENTOR(S): Hishikawa, Hidemi; Nochimori, Seiichi; Furuyama,
Kenju
PATENT ASSIGNEE(S): Japan Synthetic Rubber Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 07033950	A	19950203	JP 1993-197648	199307 16
JP 3393446	B2	20030407		
PRIORITY APPLN. INFO.:			JP 1993-197648	199307 16

AB The title compns. comprise (A) 100 parts siloxane graft copolymers, (B) 1-30 parts blends of 10-99% functional group-containing rubber-modified styrene polymers and 90-1% polyamide elastomers and/or polyester elastomers, and (C) 0-40 parts fire retardants; the component A may be blended with polycarbonates in 5-95:95-5 ratio. P-vinylphenylmethyldimethoxysilane and octamethylcyclotetrasiloxane were polymerized in 1.5:98.5 ratio, and 45 parts styrene and 15 parts Me methacrylate were grafted on 40 parts the resulting siloxane copolymer. A rubber-modified thermoplastic resin was prepared from butadiene rubber 32, SBR 8, styrene 41.3, acrylonitrile 13.7, and 2-hydroxyethyl methacrylate 5 parts. A composition comprised the above grafted siloxane 50, 75:25 styrene-acrylonitrile copolymer 50, the above rubber-modified thermoplastic 10, and PEBAX4011 12 parts.

IT 127608-87-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
(Properties); PREP (Preparation); USES (Uses)
(fire- and heat-resistant antistatic plastic compns. with good
sliding properties)

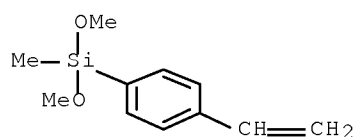
RN 127608-87-1 HCAPLUS

CN 2-Propenenitrile, polymer with ethenylbenzene, (4-
ethenylphenyl)dimethoxymethylsilane and
octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 17998-86-6

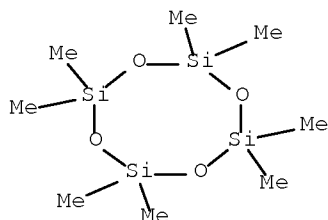
CMF C11 H16 O2 Si



CM 2

CRN 556-67-2

CMF C8 H24 O4 Si4



CM 3

CRN 107-13-1

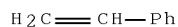
CMF C3 H3 N



CM 4

CRN 100-42-5

CMF C8 H8



IC ICM C08L051-08
 ICS C08L051-08; C08K005-00; C08L051-04; C08L067-00; C08L069-00;
 C08L077-00; C08L083-10

CC 37-6 (Plastics Manufacture and Processing)

IT 9003-54-7P, Acrylonitrile-styrene copolymer 111306-48-0P,
 Acrylonitrile-butadiene-glycidyl methacrylate-styrene graft
 copolymer 111930-32-6P, Acrylonitrile-butadiene-methacrylic
 acid-styrene graft copolymer 112504-34-4P, Acrylamide-
 acrylonitrile-butadiene-styrene graft copolymer 115505-89-0P
 127608-87-1P 129698-81-3P, Acrylonitrile-butadiene-2-
 hydroxyethyl methacrylate-styrene graft copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)
(fire- and heat-resistant antistatic plastic compns. with good sliding properties)

L30 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:632866 HCAPLUS Full-text

DOCUMENT NUMBER: 121:232866

ORIGINAL REFERENCE NO.: 121:42455a,42458a

TITLE: Rubber compositions with excellent abrasion, heat, ozone, and weather resistance and sliding property

INVENTOR(S): Oohata, Hiroyuki; Okuda, Harukazu; Uchida, Keiichi

PATENT ASSIGNEE(S): Nisshin Kagaku Kogyo Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 06157830	A	19940607	JP 1992-317890	199211 02
JP 3221944	B2	20011022		
PRIORITY APPLN. INFO.:			JP 1992-280827	A 199209 25

AB The compns. comprise 100 parts synthetic rubber and/or natural rubber and ≥ 0.1 part modified siloxane obtained by graft copolymn. of (A) $Z1O(SiR1R2O)m(SiYR3O)nZ2$ [$R1-R3 = C1-20$ (halo)hydrocarbyl; $Y =$ radically reactive group, SH-containing organic group; $Z1, Z2 = H$, lower alkyl, $SiR4R5R6$; $R4-R6 = C1-20$ (halo)hydrocarbyl, radically reactive group, SH-containing organic group; $m = 1-10,000$; $n \geq 1$; the siloxane chain may be branched] and (B) $CH2:CR7CO2R8$ (I ; $R7 = H, Me$; $R8 =$ alkyl, alkoxyalkyl, cycloalkyl, aryl) or mixts. containing $\geq 70\%$ I and $\leq 30\%$ other comonomers at A:B ratio (5:95)-(95:5). Thus, treating an aqueous emulsion containing 1500 parts octamethylcyclotetrasiloxane and 1.2 parts methacryloxypropylmethylsiloxane at 70° for 12 h and at 25° for 24 h gave a methacrylate group-containing polyorganosiloxane emulsion, 500 parts (as solids) of which was treated with 210 parts Me methacrylate and 4.5 parts 2-hydroxyethyl methacrylate at 30° in an aqueous solution in the presence of tert-Bu hydroperoxide, L-ascorbic acid, and $FeSO4.7H2O$ to give a modified siloxane. A composition containing EPT 3045 100, stearic acid 1, Irganox 1010 1, ZnO 5, HAF carbon 60, paraffin oil 20, the modified siloxane 2, Nocceler TS 1.5, Accel M 0.5, and S 1.5 parts was kneaded, sheeted, and press vulcanized at 160° for 30 min to give a test piece showing JIS hardness 74, tensile strength 147 kg/cm², elongation 320%, and good sliding property.

IT 157017-29-3P 157017-30-6P 158612-26-1P
158612-27-2P 158612-28-3P

RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation of, for rubber blends with good abrasion and heat and ozone and weather resistance and sliding property)

RN 157017-29-3 HCAPLUS

July 31, 2008

10/549,708

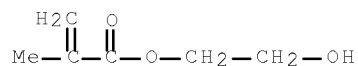
60

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with ethyl 2-propenoate, methyl 2-methyl-2-propenoate and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

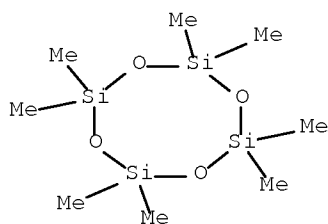
CMF C6 H10 O3



CM 2

CRN 556-67-2

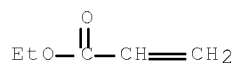
CMF C8 H24 O4 Si4



CM 3

CRN 140-88-5

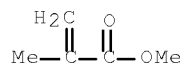
CMF C5 H8 O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



RN 157017-30-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with

July 31, 2008

10/549,708

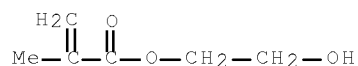
61

methyl 2-methyl-2-propenoate and octamethylcyclotetrasiloxane, graft
(9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

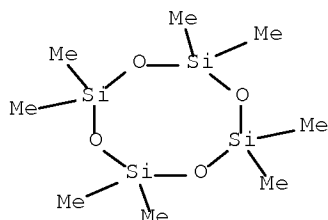
CMF C6 H10 O3



CM 2

CRN 556-67-2

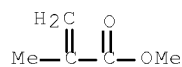
CMF C8 H24 O4 Si4



CM 3

CRN 80-62-6

CMF C5 H8 O2



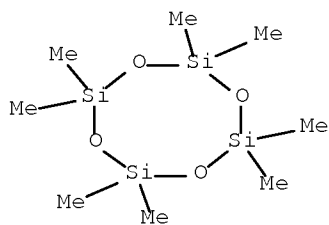
RN 158612-26-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with (1-methylethenyl)benzene,
methyl 2-methyl-2-propenoate and octamethylcyclotetrasiloxane, graft
(9CI) (CA INDEX NAME)

CM 1

CRN 556-67-2

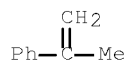
CMF C8 H24 O4 Si4



CM 2

CRN 98-83-9

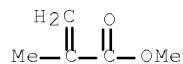
CMF C9 H10



CM 3

CRN 80-62-6

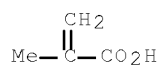
CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



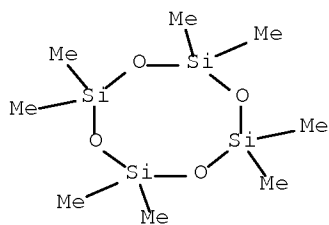
RN 158612-27-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
octamethylcyclotetrasiloxane and 2-propenoic acid, graft (9CI) (CA
INDEX NAME)

CM 1

CRN 556-67-2

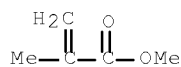
CMF C8 H24 O4 Si4



CM 2

CRN 80-62-6

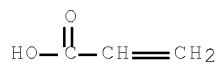
CMF C5 H8 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



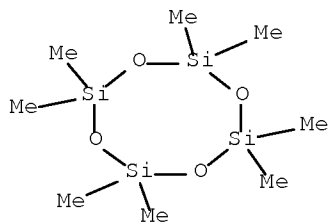
RN 158612-28-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, octamethylcyclotetrasiloxane and 2-propenenitrile, graft (9CI) (CA INDEX NAME)

CM 1

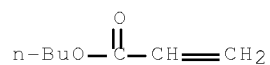
CRN 556-67-2

CMF C8 H24 O4 Si4



CM 2

CRN 141-32-2
 CMF C7 H12 O2



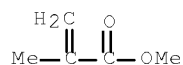
CM 3

CRN 107-13-1
 CMF C3 H3 N



CM 4

CRN 80-62-6
 CMF C5 H8 O2



IT 158612-29-4P

RL: IMF (Industrial manufacture); PREP (Preparation)

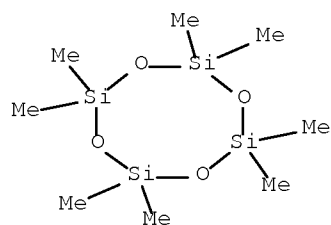
(preparation of, rubbers containing, for good abrasion and heat and ozone
 and weather resistance and sliding property)

RN 158612-29-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethyl
 2-propenoate, octamethylcyclotetrasiloxane and oxiranylmethyl
 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

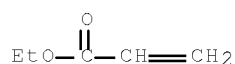
CRN 556-67-2
 CMF C8 H24 O4 Si4



CM 2

CRN 140-88-5

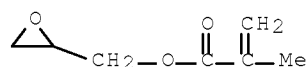
CMF C5 H8 O2



CM 3

CRN 106-91-2

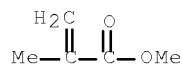
CMF C7 H10 O3



CM 4

CRN 80-62-6

CMF C5 H8 O2



IC ICM C08L021-00

ICS C08L007-00; C08L051-08

CC 39-9 (Synthetic Elastomers and Natural Rubber)

IT 157017-29-3P 157017-30-6P 158612-26-1P

158612-27-2P 158612-28-3P

RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation of, for rubber blends with good abrasion and heat and ozone and weather resistance and sliding property)

IT 158612-29-4P

RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation of, rubbers containing, for good abrasion and heat and ozone and weather resistance and sliding property)

L30 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:484961 HCAPLUS Full-text

DOCUMENT NUMBER: 121:84961

ORIGINAL REFERENCE NO.: 121:15279a,15282a

TITLE: Polyacetal resin compositions with good sliding properties

INVENTOR(S): Oohata, Hiroyuki; Suemoto, Kyoji; Uchida, Keiichi

July 31, 2008

10/549,708

66

PATENT ASSIGNEE(S): Nisshin Kagaku Kogyo Kk, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06093168	A	19940405	JP 1992-270996	199209 14
JP 3181724	B2	20010703	JP 1992-270996	199209 14

PRIORITY APPLN. INFO.: JP 1992-270996

AB The title compns. comprise 100 parts polyacetal resins and 0.1-20 parts acryl-modified polyorganosiloxanes obtained by graft copolymg.
 $Z1O(SiR1R2O)m(SiYR3O)nZ2$ [R1-R3 = C1-20 (halo)hydrocarbyl; Y = radically reactive groups, SH-containing organic groups; Z1, Z2 = H, lower alkyl, SiR4R5R6; R4, R5 = C1-20 (halo)hydrocarbyl; R6 = C1-20 (halo)hydrocarbyl, radically reactive groups, SH-containing organic groups; m ≤10,000 natural number, n ≥1 integer] with mixts. of ≥70% CH2:CR7CO2R8 (R7 = H, Me; R8 = alkyl, alkoxy-substituted alkyl, cycloalkyl, aryl) and ≤30% comonomers at (5-95):(95-5). Thus, 1500 parts octamethylcyclotetrasiloxane and 1.2 parts methacryloxypropylmethylsiloxane were emulsion polymerized in water to give an emulsion of a siloxane containing 0.03 mol methacrylic group, 1110 parts (siloxane content 500 parts) of which was treated with 210 parts Me methacrylate and 4.5 parts 2-hydroxyethyl methacrylate to give an acryl-modified siloxane, 5 parts of which was mixed with 100 parts Tenac 5010, melt kneaded, pelletized, then injection molded to give test pieces with good surface conditions, which showed friction factor (vs. S 45C; 10 kg/cm², 10 cm/s) 0.25.

IT 156787-80-3P 156787-81-4P 156787-82-5P
 RL: PREP (Preparation)
 (preparation of, blends, with polyacetal resins, with good sliding properties)

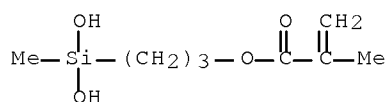
RN 156787-80-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and octamethylcyclotetrasiloxane, graft (9CI)
 (CA INDEX NAME)

CM 1

CRN 156787-79-0

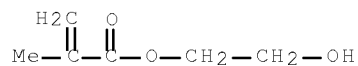
CMF C8 H16 O4 Si



CM 2

CRN 868-77-9

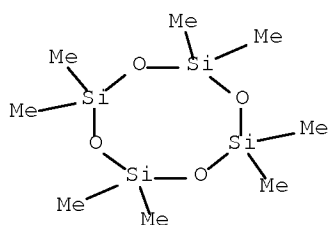
CMF C6 H10 O3



CM 3

CRN 556-67-2

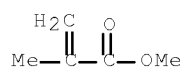
CMF C8 H24 O4 Si4



CM 4

CRN 80-62-6

CMF C5 H8 O2



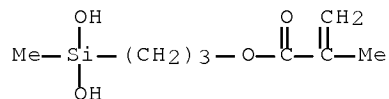
RN 156787-81-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 156787-79-0

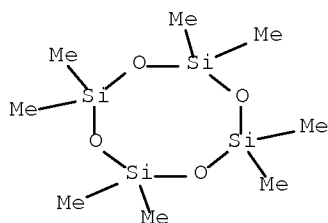
CMF C8 H16 O4 Si



CM 2

CRN 556-67-2

CMF C8 H24 O4 Si4



CM 3

CRN 96-33-3

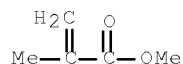
CMF C4 H6 O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



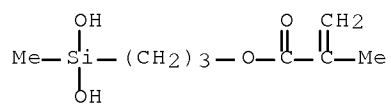
RN 156787-82-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester, polymer with ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 156787-79-0

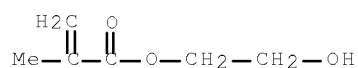
CMF C8 H16 O4 Si



CM 2

CRN 868-77-9

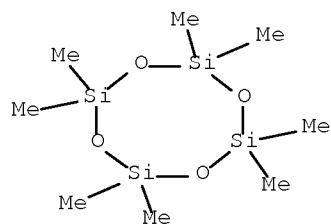
CMF C6 H10 O3



CM 3

CRN 556-67-2

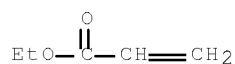
CMF C8 H24 O4 Si4



CM 4

CRN 140-88-5

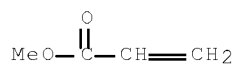
CMF C5 H8 O2



CM 5

CRN 96-33-3

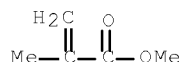
CMF C4 H6 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



IC ICM C08L059-00

ICI C08L059-00, C08L051-08

CC 37-6 (Plastics Manufacture and Processing)

IT 156787-80-3P 156787-81-4P 156787-82-5P

RL: PREP (Preparation)

(preparation of, blends, with polyacetal resins, with good sliding properties)

=> d 129 ibib abs hitstr hitind 1-4

L29 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:570362 HCAPLUS Full-text

DOCUMENT NUMBER: 137:125819

TITLE: Storage-stable silicone oil dispersions and their manufacture

INVENTOR(S): Yanagisawa, Masahiro

PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 2002212423	A	20020731	JP 2001-12549	20010122
PRIORITY APPLN. INFO.:				20010122

AB The dispersions useful for processing of fibers, paper, plastic surface, metal surface, etc., contain additives comprising microparticles (A) which are insol. in the silicone oil and derived from polyoxyalkylene type macromers, and polymers (B) which are compatible with the silicone and derived from monomers bearing acidic groups. Thus, dropping a solution containing a methacryloyloxypropyldimethylsilyl- and trimethylsilyl-terminated di-Me siloxane 48, methacrylic acid 2 and Bz2O2 1 to SH 200 (di-Me siloxane) oil 300 parts at 85° and mixing for 5 h gave a transparent resin solution. Combining the solution 50 with carbon black 1 and a 30:15:5 copolymer of Me methacrylate, decyl methacrylate and a polyethylene glycol methacrylate ester

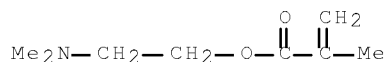
Me ether, 5 parts and milling in a ball mill gave a dispersion with good storage stability.

IT 185339-68-8DP, Dimethylaminoethyl methacrylate-dimethylsilanediol graft copolymer, trimethylsilyl ether 345265-90-9DP, Dimethylsilanediol-methacrylic acid graft copolymer, trimethylsilyl ether 404353-17-9P, Dimethylaminoethyl methacrylate-methacryloyloxypropyldimethylsilyl trimethylsilyl terminated polydimethylsiloxane graft copolymer 444200-79-7P, Methacrylic acid-methacryloyloxypropyldimethylsilyl trimethylsilyl terminated polydimethylsiloxane graft copolymer 444200-89-9P 444200-91-3DP, trimethylsilyl ether 444200-92-4P 444200-93-5P 444200-94-6P 444314-66-3DP, trimethylsilyl ether 444314-68-5DP, Dimethylsilanediol-ethylene oxide-laurylmethacrylamide-methacrylic acid-methyl methacrylate graft copolymer methyl ether, trimethylsilyl ether 444328-85-2DP, trimethylsilyl ether
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PREP (Preparation); USES (Uses)
 (storage-stable silicone oil dispersions and manufacture)
 RN 185339-68-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,1-dimethylsilanediol, graft (CA INDEX NAME)

CM 1

CRN 2867-47-2

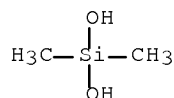
CMF C8 H15 N O2



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si

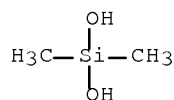


RN 345265-90-9 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylsilanediol, graft (CA INDEX NAME)

CM 1

CRN 1066-42-8

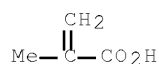
CMF C2 H8 O2 Si



CM 2

CRN 79-41-4

CMF C4 H6 O2



RN 404353-17-9 HCAPLUS

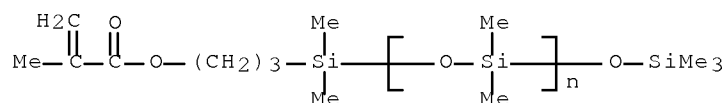
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with α -[dimethyl[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl]silyl]- ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], graft (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

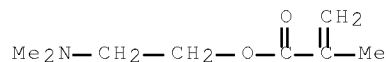
CCI PMS



CM 2

CRN 2867-47-2

CMF C8 H15 N O2



RN 444200-79-7 HCAPLUS

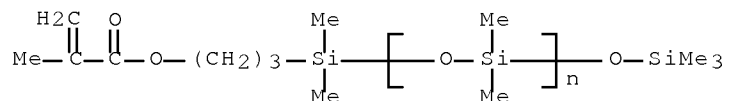
CN 2-Propenoic acid, 2-methyl-, polymer with α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

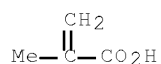
CCI PMS



CM 2

CRN 79-41-4

CMF C4 H6 O2



RN 444200-89-9 HCAPLUS

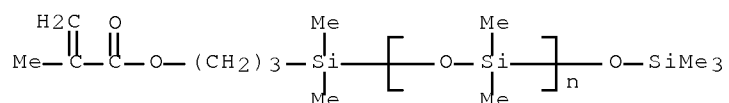
CN 2-Propenoic acid, 2-methyl-, polymer with α -[dimethyl[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl]silyl]-~~o~~-[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and 1-ethenyl-2-pyrrolidinone, graft (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

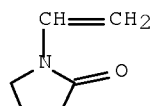
CCI PMS



CM 2

CRN 88-12-0

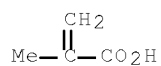
CMF C6 H9 N O



CM 3

CRN 79-41-4

CMF C4 H6 O2



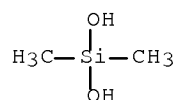
RN 444200-91-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylsilanediol and 1-ethenyl-2-pyrrolidinone, graft (CA INDEX NAME)

CM 1

CRN 1066-42-8

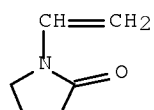
CMF C2 H8 O2 Si



CM 2

CRN 88-12-0

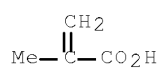
CMF C6 H9 N O



CM 3

CRN 79-41-4

CMF C4 H6 O2



RN 444200-92-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- ω -

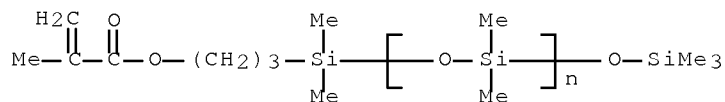
[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 1,2-ethanediyl
bis(2-methyl-2-propenoate) and α -(2-methyl-1-oxo-2-propenyl)-
 ω -methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX
NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

CCI PMS

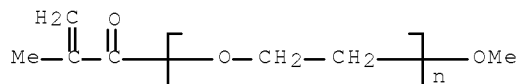


CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

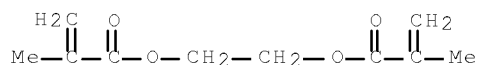
CCI PMS



CM 3

CRN 97-90-5

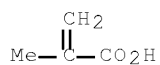
CMF C10 H14 O4



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 444200-93-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with α -[dimethyl[3-[(2-

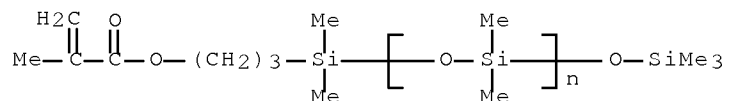
methyl-1-oxo-2-propenyl)oxy]propyl)silyl]- ω -
 [(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)],
 N-dodecyl-2-methyl-2-propenamamide, methyl 2-methyl-2-propenoate and
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-
 ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

CCI PMS

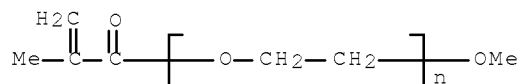


CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

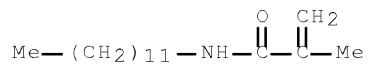
CCI PMS



CM 3

CRN 1191-39-5

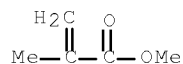
CMF C16 H31 N O



CM 4

CRN 80-62-6

CMF C5 H8 O2



July 31, 2008

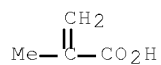
10/549,708

77

CM 5

CRN 79-41-4

CMF C4 H6 O2



RN 444200-94-6 HCAPLUS

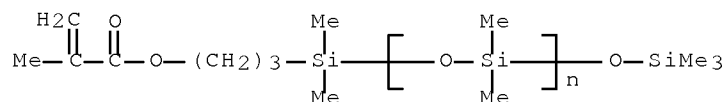
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and 1-ethenyl-2-pyrrolidinone, graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

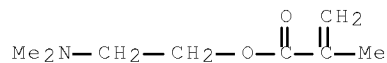
CCI PMS



CM 2

CRN 2867-47-2

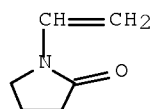
CMF C8 H15 N O2



CM 3

CRN 88-12-0

CMF C6 H9 N O



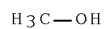
RN 444314-66-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with dimethylsilanediol,
1,2-ethanediyl bis(2-methyl-2-propenoate) and oxirane, methyl ether,
graft (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 444314-65-2

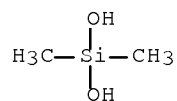
CMF (C10 H14 O4 . C4 H6 O2 . C2 H8 O2 Si . C2 H4 O)x

CCI PMS

CM 3

CRN 1066-42-8

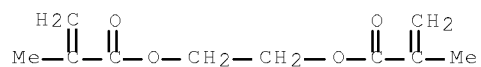
CMF C2 H8 O2 Si



CM 4

CRN 97-90-5

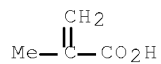
CMF C10 H14 O4



CM 5

CRN 79-41-4

CMF C4 H6 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



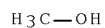
RN 444314-68-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with dimethylsilanediol,
N-dodecyl-2-methyl-2-propenamide, methyl 2-methyl-2-propenoate and
oxirane, methyl ether, graft (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 444314-67-4

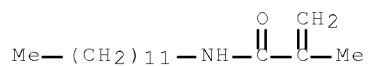
CMF (C16 H31 N O . C5 H8 O2 . C4 H6 O2 . C2 H8 O2 Si . C2 H4 O)x

CCI PMS

CM 3

CRN 1191-39-5

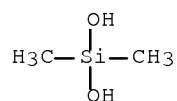
CMF C16 H31 N O



CM 4

CRN 1066-42-8

CMF C2 H8 O2 Si



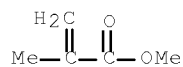
July 31, 2008

10/549,708

80

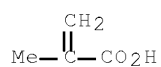
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 75-21-8
CMF C2 H4 O

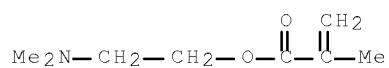


RN 444328-85-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer
with dimethylsilanediol and 1-ethenyl-2-pyrrolidinone, graft (9CI)
(CA INDEX NAME)

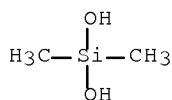
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

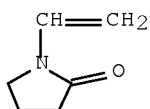
CRN 1066-42-8
CMF C2 H8 O2 Si



CM 3

CRN 88-12-0

CMF C6 H9 N O



IC ICM C08L083-04
ICS C08L033-14

CC 37-3 (Plastics Manufacture and Processing)

IT Polyoxyalkylenes, preparation
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(acrylic-polysiloxane-, graft; storage-stable
silicone oil dispersions and manufacture)

IT 185339-68-8DP, Dimethylaminoethyl methacrylate-
dimethylsilanediol graft copolymer,
trimethylsilyl ether 345265-90-9DP, Dimethylsilanediol-
methacrylic acid graft copolymer, trimethylsilyl
ether 404353-17-9P, Dimethylaminoethyl
methacrylate-methacryloyloxypropyldimethylsilyl trimethylsilyl
terminated polydimethylsiloxane graft copolymer
444200-79-7P, Methacrylic acid-methacryloyloxypropyldimethyl
silyl trimethylsilyl terminated polydimethylsiloxane graft
copolymer 444200-81-1P 444200-85-5P 444200-87-7P
444200-89-9P 444200-91-3DP, trimethylsilyl ether
444200-92-4P 444200-93-5P 444200-94-6P
444314-60-7P, Decyl methacrylate-ethylene oxide-methyl methacrylate
graft copolymer methyl ether 444314-62-9P,
Dibutylaminoethyl methacrylate-ethylene glycol dimethacrylate-ethyl
methacrylate-ethylene oxide graft copolymer
methyl ether 444314-64-1P, Diethylaminoethyl methacrylate-ethylene
glycol dimethacrylate-ethylene oxide-hydroxyethyl methacrylate
graft copolymer methyl ether 444314-66-3DP
, trimethylsilyl ether 444314-68-5DP, Dimethylsilanediol-
ethylene oxide-laurylmethacrylamide-methacrylic acid-methyl
methacrylate graft copolymer methyl ether,
trimethylsilyl ether 444328-85-2DP, trimethylsilyl ether
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(storage-stable silicone oil dispersions and manufacture)

TITLE: Silicone graft copolymers
with no irritating odors and good oxidation
resistance and their manufacture

INVENTOR(S): Nakanishi, Tetsuo; Ono, Ichiro

PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 2000344829	A	20001212	JP 2000-68371	200003 13
JP 4021116	B2	20071212		
US 6313249	B1	20011106	US 2000-538262	200003 30
PRIORITY APPLN. INFO.:		JP 1999-92205	A	199903 31

AB The copolymers, having no residual aliphatic unsatd. groups and being useful for cosmetic materials, are manufactured by radical polymerization of unsatd. monomers, polysiloxanes having radically-polymerizable terminals, and optional radically-polymerizable long-alkyl compds. upon heating and pressurized hydrogenation. Thus, 551 parts 3-methacryloxypropyl- and trimethylsilyl-terminated di-Me siloxane was reacted with 395 parts stearyl methacrylate (NK Ester S) and 54 parts Me methacrylate at 90-100° and hydrogenated at H pressure 5 kg/cm2 to give a graft copolymer of polystyrene-converted Mw 57,000.

IT 263902-49-4DP, hydrogenated 311771-93-4DP, hydrogenated 311771-94-5DP, hydrogenated 311771-95-6DP, hydrogenated 311771-96-7DP, hydrogenated 312304-93-1DP, hydrogenated

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of polysiloxane-grafted acrylic polymers with low odor and good oxidation resistance)

RN 263902-49-4 HCAPLUS

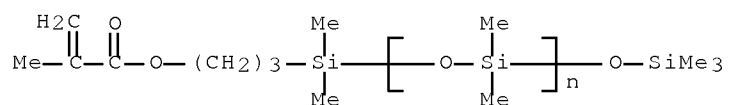
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and
octadecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)n C12 H26 O3 Si2

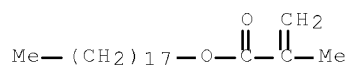
CCI PMS



CM 2

CRN 32360-05-7

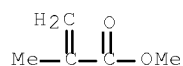
CMF C22 H42 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



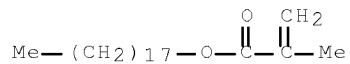
RN 311771-93-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with dimethylsilanediol, methyloxirane and octadecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

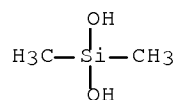
CMF C22 H42 O2



CM 2

CRN 1066-42-8

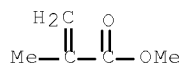
CMF C2 H8 O2 Si



CM 3

CRN 80-62-6

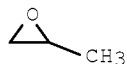
CMF C5 H8 O2



CM 4

CRN 75-56-9

CMF C3 H6 O



RN 311771-94-5 HCAPLUS

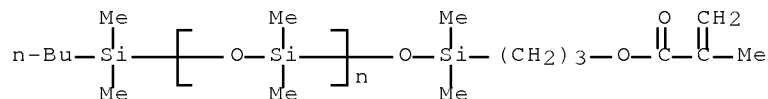
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 α -(butyldimethylsilyl)- ω -[[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]oxy]poly[oxy(dimethylsilylene)],
 α -(2-methyl-1-oxo-2-propenyl)- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and octadecyl 2-methyl-2-propenoate, graft (9CI)
 (CA INDEX NAME)

CM 1

CRN 149925-73-5

CMF (C2 H6 O Si)_n C15 H32 O3 Si2

CCI PMS

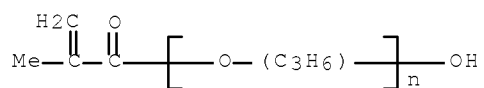


CM 2

CRN 39420-45-6

CMF (C3 H6 O)_n C4 H6 O2

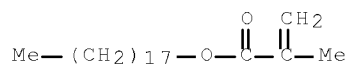
CCI IDS, PMS



CM 3

CRN 32360-05-7

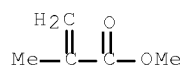
CMF C22 H42 O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



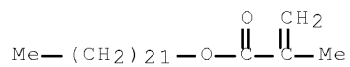
RN 311771-95-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, docosyl ester, polymer with
dimethylsilanediol and methyl 2-methyl-2-propenoate, graft (9CI)
(CA INDEX NAME)

CM 1

CRN 16669-27-5

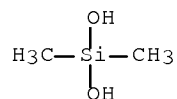
CMF C26 H50 O2



CM 2

CRN 1066-42-8

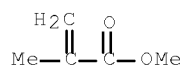
CMF C2 H8 O2 Si



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 311771-96-7 HCAPLUS

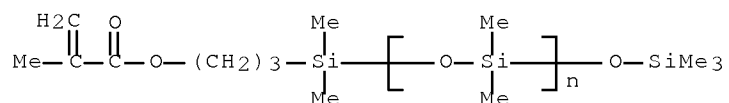
CN 2-Propenoic acid, 2-methyl-, docosyl ester, polymer with
 α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and methyl
 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

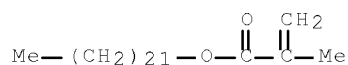
CCI PMS



CM 2

CRN 16669-27-5

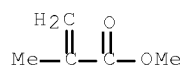
CMF C26 H50 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 312304-93-1 HCAPLUS

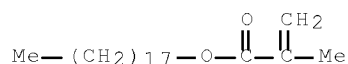
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with

dimethylsilanediol and octadecyl 2-methyl-2-propenoate, graft (9CI)
(CA INDEX NAME)

CM 1

CRN 32360-05-7

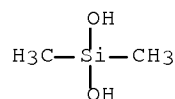
CMF C22 H42 O2



CM 2

CRN 1066-42-8

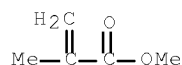
CMF C2 H8 O2 Si



CM 3

CRN 80-62-6

CMF C5 H8 O2



IC ICM C08F008-04

ICS C08F290-06

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 38, 62

ST hydrogenated acrylic polysiloxane graft oxidn

resistance; dimethylsiloxane macromer graft polymn pressurized

hydrogenation; cosmetic odorless acrylic

polysiloxane graft copolymer

IT Polysiloxanes, preparation

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)

(acrylic, graft, hydrogenated; manufacture of polysiloxane-
grafted acrylic polymers with low odor and good
oxidation resistance)

IT Polymers, preparation

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)

(graft; manufacture of polysiloxane-grafted
acrylic polymers with low odor and good oxidation

resistance)
 IT Cosmetics
 (manufacture of polysiloxane-grafted acrylic
 polymers with low odor and good oxidation resistance)
 IT Hydrogenation
 (pressurized; manufacture of polysiloxane-grafted acrylic
 polymers with low odor and good oxidation resistance)
 IT 263902-49-4DP, hydrogenated 311771-93-4DP,
 hydrogenated 311771-94-5DP, hydrogenated
 311771-95-6DP, hydrogenated 311771-96-7DP,
 hydrogenated 312304-93-1DP, hydrogenated
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
 or engineered material use); PREP (Preparation); USES (Uses)
 (manufacture of polysiloxane-grafted acrylic
 polymers with low odor and good oxidation resistance)

L29 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:619557 HCAPLUS Full-text

DOCUMENT NUMBER: 133:209406

TITLE: Acrylic polysiloxane
 polymer-based water-repellent coating
 compositions with freedom from leaving water
 marks on treated surface

INVENTOR(S): Yamashita, Fumio; Yugawa, Yoshiyuki

PATENT ASSIGNEE(S): Kansai Paint Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 2000239601	A	20000905	JP 1999-42571	199902 22
PRIORITY APPLN. INFO.:			JP 1999-42571	199902 22

AB The compns. contain hydrolyzable alkoxysilylated siloxane polymers derived from (A) 1-40% mono- or di(meth)acryloyloxyalkyldimethylsilyl-terminated di-Me siloxane macromers, (B) 5-50% hydrolyzable alkoxysilyl group-containing monomers and (C) 10-94% other comonomers, crosslinking agents and curing catalysts. Thus, heating Bu acetate 81.8 with Silaplane FM 0721 (monoacrylated siloxane) 10, γ -methacryloxypropyltrimethoxysilane 30 and iso-Bu methacrylate 60 in the presence of 2,2'-azobis(2,4-dimethylvaleronitrile) 4.2 parts at 95° for 2 h gave a solution containing 55% methacrylic siloxane with number-average mol. weight 7000. Mixing 100 parts the polymer with 15 parts TPA 90EX (HMDI isocyanurate polymer) and 0.03 parts Neostann U 100 (curing catalyst), coating the mixture on a glass surface to 30 μ m thickness and drying at room temperature for 3 days gave a coat film with water contact angle 101° and 100° initially and after 3 days in water, resp.

IT 290816-31-8P, Isobutyl methacrylate- γ -methacryloxypropyltrimethoxysilane-Silaplane FM 0721 graft copolymer 290816-33-0P, 2-Hydroxyethyl methacrylate-isobutyl methacrylate- γ -

methacryloxypropyltrimethoxysilane-Silaplane FM 0721 graft
 copolymer 290816-36-3DP, Dimethylsilanediol-
 isobutyl methacrylate- γ -methacryloxypropyltrimethoxysilane
 graft copolymer, trimethylsilyl-terminated
 290816-37-4DP, Dimethylsilanediol-2-hydroxyethyl
 methacrylate-isobutyl methacrylate- γ -
 methacryloxypropyltrimethoxysilane graft copolymer
 , trimethylsilyl-terminated

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
 (Properties); PREP (Preparation); USES (Uses)
 (acrylic polysiloxane polymer-based
 water-repellent coating compns. with freedom from leaving water
 marks on treated surface)

RN 290816-31-8 HCAPLUS

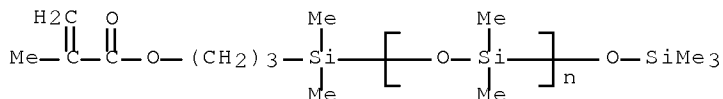
CN 2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with
 α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and
 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA
 INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

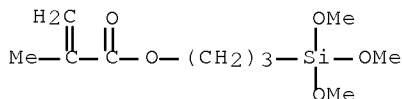
CCI PMS



CM 2

CRN 2530-85-0

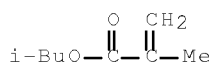
CMF C10 H20 O5 Si



CM 3

CRN 97-86-9

CMF C8 H14 O2



RN 290816-33-0 HCAPLUS

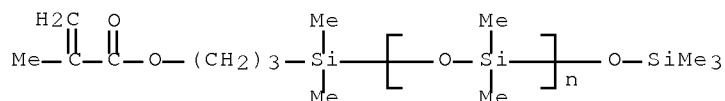
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
 α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)],
 2-methylpropyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl
 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

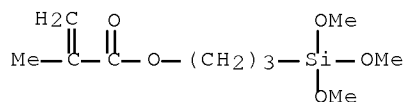
CCI PMS



CM 2

CRN 2530-85-0

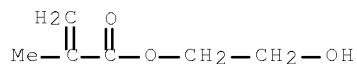
CMF C10 H20 O5 Si



CM 3

CRN 868-77-9

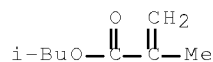
CMF C6 H10 O3

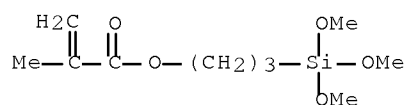


CM 4

CRN 97-86-9

CMF C8 H14 O2

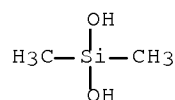




CM 2

CRN 1066-42-8

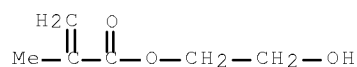
CMF C2 H8 O2 Si



CM 3

CRN 868-77-9

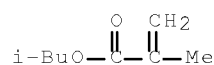
CMF C6 H10 O3



CM 4

CRN 97-86-9

CMF C8 H14 O2



IC ICM C09D143-04

ICS C08F290-06; C09D005-00; C09D183-07; C09K003-18

CC 42-10 (Coatings, Inks, and Related Products)

IT Acrylic polymers, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)

(polysiloxane-; acrylic polysiloxane

polymer-based water-repellent coating compns. with freedom from leaving water marks on treated surface)

IT Coating materials

(water-resistant; acrylic polysiloxane

polymer-based water-repellent coating compns. with freedom from leaving water marks on treated surface)

IT 290816-31-8F, Isobutyl methacrylate-γ-

methacryloxypropyltrimethoxysilane-Silaplane FM 0721 graft
copolymer 290816-33-0P, 2-Hydroxyethyl
methacrylate-isobutyl methacrylate-γ-
methacryloxypropyltrimethoxysilane-Silaplane FM 0721 graft
copolymer 290816-33-0P, 2-Hydroxyethyl
methacrylate-isobutyl methacrylate-γ-
methacryloxypropyltrimethoxysilane-Silaplane FM 0725 graft
copolymer 290816-34-1P, 2-Hydroxyethyl
methacrylate-isobutyl methacrylate-γ-
methacryloxypropyltrimethoxysilane-Silaplane FM 7721 copolymer
290816-36-3DP, Dimethylsilanediol-isobutyl
methacrylate-γ-methacryloxypropyltrimethoxysilane
graft copolymer, trimethylsilyl-terminated
290816-37-4DP, Dimethylsilanediol-2-hydroxyethyl
methacrylate-isobutyl methacrylate-γ-
methacryloxypropyltrimethoxysilane graft copolymer
, trimethylsilyl-terminated

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
(Properties); PREP (Preparation); USES (Uses)

(acrylic polysiloxane polymer-based
water-repellent coating compns. with freedom from leaving water
marks on treated surface)

IT 276691-31-7, TPA 90EX

RL: MOA (Modifier or additive use); USES (Uses)

(crosslinkers; acrylic polysiloxane
polymer-based water-repellent coating compns. with freedom from
leaving water marks on treated surface)

IT 77-58-7, Neostann U 100

RL: CAT (Catalyst use); USES (Uses)

(curing catalyst; acrylic polysiloxane
polymer-based water-repellent coating compns. with freedom from
leaving water marks on treated surface)

L29 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:542789 HCAPLUS Full-text

DOCUMENT NUMBER: 127:238902

ORIGINAL REFERENCE NO.: 127:46513a,46516a

TITLE: Cosmetic compositions containing modified
polyorganosiloxane emulsions as film-forming
components

INVENTOR(S): Matsumoto, Makoto; Urabe, Takashi; Kato, Minoru;
Tamori, Koji

PATENT ASSIGNEE(S): Toshiba Silicone Co., Ltd., Japan; Japan
Synthetic Rubber Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

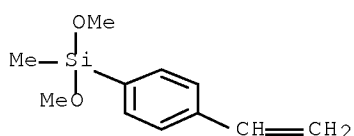
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 09208422	A	19970812	JP 1996-21509	199602 07
PRIORITY APPLN. INFO.:			JP 1996-21509	199602

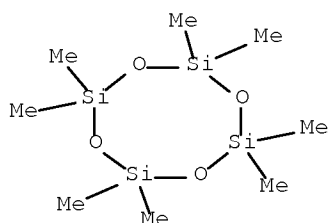
- AB The compns. contain modified polyorganosiloxane emulsions obtained by polycondensation of organosiloxanes (A) with 0.02-20 weight% (of A + B) grafting agents (B) to give polyorganosiloxanes (C) and polymerizing 10-99 weight parts monomers (D) comprising (19.5-99.5):(0.5-50):(0-80) (weight%) mixts. of C1-10 alkyl (meth)acrylate esters, ethylenic unsatd. carboxylic acids, and other monomers in the presence of 1-90 weight parts (as solids) C. P-
- vinylphenylmethyldimethoxysilane (1.5 parts) was treated with 98.5 parts octamethylcyclotetrasiloxane in H₂O in the presence of dodecylbenzenesulfonic acid to give an aqueous dispersion. Then, Bu acrylate 50, Me methacrylate 20, styrene 28, and acrylic acid 2 weight parts were polymerized in an aqueous emulsion in the presence of the aqueous dispersion of modified polyorganosiloxane (100 parts as solids) and K persulfate to give an emulsion. A hair-styling composition containing 5.0 wt .% of the emulsion showed hair-softening and -smoothing effect.
- IT 194611-43-3P 194654-77-8P
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cosmetic compns. containing modified polyorganosiloxane emulsions as film-forming components)
- RN 194611-43-3 HCAPLUS
- CN 2-Propenoic acid, polymer with butyl 2-propenoate, ethenylbenzene, (4-ethenylphenyl)dimethoxymethylsilane and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)
- CM 1
- CRN 17998-86-6
- CMF C11 H16 O2 Si



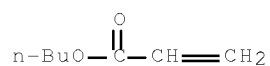
CM 2

CRN 556-67-2

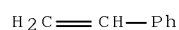
CMF C8 H24 O4 Si4



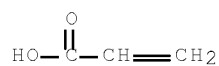
CM 3

CRN 141-32-2
CMF C7 H12 O2

CM 4

CRN 100-42-5
CMF C8 H8

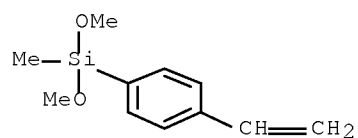
CM 5

CRN 79-10-7
CMF C3 H4 O2

RN 194654-77-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, ethenylbenzene, (4-ethenylphenyl)dimethoxymethylsilane
, octamethylcyclotetrasiloxane and 2-propenoic acid, graft (9CI)
(CA INDEX NAME)

CM 1

CRN 17998-86-6
CMF C11 H16 O2 Si

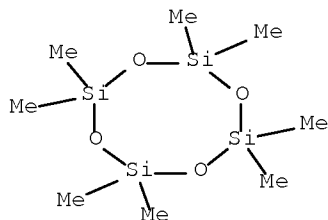
CM 2

July 31, 2008

10/549,708

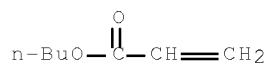
96

CRN 556-67-2
CMF C8 H24 O4 Si4



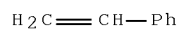
CM 3

CRN 141-32-2
CMF C7 H12 O2



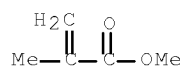
CM 4

CRN 100-42-5
CMF C8 H8



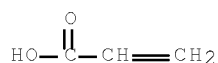
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-10-7
CMF C3 H4 O2



IC ICM A61K007-00
ICS A61K007-032; C08F290-06; C08G077-20
CC 62-3 (Essential Oils and Cosmetics)
ST modified polyorganosiloxane acrylic polymer
emulsion cosmetic; hair emulsion modified polyorganosiloxane
acrylic polymer; graft copolymer
acrylic polyorganosiloxane cosmetic emulsion
IT Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); PNU (Preparation,
unclassified); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(graft copolymers; cosmetic compns. containing
modified polyorganosiloxane emulsions as film-forming components)
IT 194611-43-3P 194654-77-8P
RL: BUU (Biological use, unclassified); PNU (Preparation,
unclassified); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(cosmetic compns. containing modified polyorganosiloxane emulsions as
film-forming components)

=> d l31 ibib abs hitstr hitind 1-13

L31 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1332053 HCAPLUS Full-text
DOCUMENT NUMBER: 147:542613
TITLE: Impact-resistant matte thermoplastic resin
compositions and molded products thereof
INVENTOR(S): Wakita, Tsuneki; Nakamura, Keiji
PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 2007302837	A	20071122	JP 2006-134804	200605 15
PRIORITY APPLN. INFO.:			JP 2006-134804	200605 15

AB Title compns. contain graft copolymers (B) having number-average particle size 0.01-0.09 μm with volume fraction of ≥ 0.10 - μm particles ≤ 20 volume%, where (B) consist of 60-95 parts composite rubbers consisting of polyorganosiloxane component (a) and poly[alkyl (meth)acrylate] component (b) and 5-40 parts vinyl monomers (c) grafted thereon, (b) is prepared by polymerization of alkyl (meth)acrylate mixts. containing 0.1-3.0% multifunctional alkyl

(meth)acrylates, and (c) contain ≥ 1 vinyl monomers having reactive groups. Thus, 64.5 parts Bu acrylate and 1.3 parts allyl methacrylate were mixed with Na polyoxyethylene lauryl sulfate and tert-Bu hydroperoxide, added to an aqueous solution containing 57.7 parts of 18.2% solid organosiloxane latex (prepared from octamethylcyclotetrasiloxane 97.5, γ -methacryloyloxypropyldimethoxymethylsilane 0.5, and tetraethoxysilane 2 parts), and polymerized by addition of FeSO₄, EDTA.2Na, and rongalite to give a composite rubber latex, 75 parts (as solid) of which was grafted with 17.5 parts Me methacrylate and 7.5 parts methacrylic acid and spray-dried to give a powdered graft copolymer (I) with number-average particle size 0.085 μ m and ≥ 0.10 - μ m particle fraction 13.2 volume%. AS resin (AP-H) 75, ABS resin (RV) 25, and I 10 parts were mixed with Mg stearate 0.4, ethylenebisstearamide 0.4, and carbon black 0.8 phr, melt-kneaded, pelletized, and injection-molded to give a test piece showing Izod impact strength 8.5 kg/cm at 0° and 60° gloss 38.0.

IT 876337-90-5P, Allyl methacrylate-butyl acrylate-methacrylic acid- γ -methacryloyloxypropyldimethoxymethylsilane-methyl methacrylate-octamethylcyclotetrasiloxane-tetraethoxysilane graft copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(impact-resistant matte thermoplastic resin compns. for molded products)

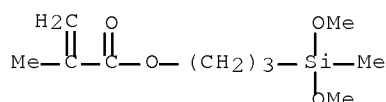
RN 876337-90-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane, 2-propen-1-yl 2-methyl-2-propenoate and silicic acid (H4SiO4) tetraethyl ester, graft (CA INDEX NAME)

CM 1

CRN 14513-34-9

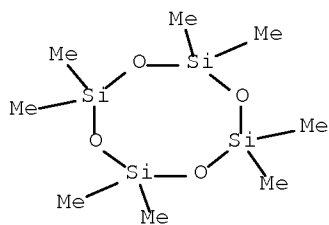
CMF C10 H20 O4 Si



CM 2

CRN 556-67-2

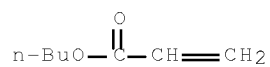
CMF C8 H24 O4 Si4



CM 3

CRN 141-32-2

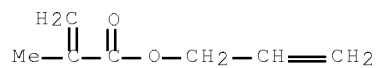
CMF C7 H12 O2



CM 4

CRN 96-05-9

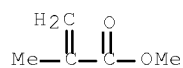
CMF C7 H10 O2



CM 5

CRN 80-62-6

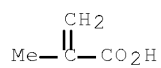
CMF C5 H8 O2



CM 6

CRN 79-41-4

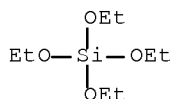
CMF C4 H6 O2



CM 7

CRN 78-10-4

CMF C8 H20 O4 Si



CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38

IT 876337-90-5P, Allyl methacrylate-butyl acrylate-methacrylic acid- γ -methacryloyloxypropyldimethoxymethylsilane-methyl methacrylate-octamethylcyclotetrasiloxane-tetraethoxysilane graft copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(impact-resistant matte thermoplastic resin compns. for molded products)

L31 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:626553 HCAPLUS Full-text

DOCUMENT NUMBER: 137:353412

TITLE: Synthesis of graft terpolymers poly(alkyl methacrylate)-g-poly(D-lactic acid)/poly(dimethyl siloxane) using the grafting through method in atom transfer radical polymerization

AUTHOR(S): Lutz, Jean-Francois; Matyjaszewski, Krzysztof

CORPORATE SOURCE: Center Macromolecular Eng., Dep. Chem., Carnegie Mellon Univ., Pittsburgh, PA, 15213, USA

SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2002), 43(2), 231-232

CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer Chemistry

DOCUMENT TYPE: Journal; (computer optical disk)

LANGUAGE: English

AB Well-defined terpolymers poly(alkyl methacrylate)-g-poly(D-lactic acid)/poly(di-Me siloxane) with controlled mol. wts. ($M_n = 60000$ g/mol) and low polydispersities ($M_w/M_n = 1.2$) were prepared using the grafting through method and atom transfer radical polymerization (ATRP). Two different synthetic approaches were studied. A "one step approach" was used where low mol. wt. methacrylate monomer, methacrylate functionalized poly(D-lactic acid) macromonomer and methacrylate functionalized poly(di-Me siloxane) macromonomer were copolymerized. A "two step approach" was used where a graft copolymer containing one macromonomer is chain extended by a copolymer of the second macromonomer with low mol. weight monomer. Depending on the approach used, it was possible to adjust the branch spacing of the resulting copolymer.

IT 474326-37-9P, Dimethylsilanediol-D-lactic acid-methyl methacrylate graft copolymer 474326-39-1P, Dimethylsilanediol-D-lactic acid-butyl methacrylate graft copolymer

474376-75-5P, Dimethylsilanediol-D-lactic acid-methyl
methacrylate block graft copolymer

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of graft or block-graft poly(alkyl methacrylate)-g-poly(D-
lactic acid)/poly(di-Me siloxane) using the grafting through
method in ATRP)

RN 474326-37-9 HCAPLUS

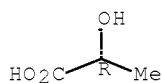
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
dimethylsilanediol and (2R)-2-hydroxypropanoic acid, graft (9CI)
(CA INDEX NAME)

CM 1

CRN 10326-41-7

CMF C3 H6 O3

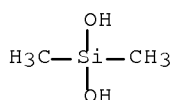
Absolute stereochemistry.



CM 2

CRN 1066-42-8

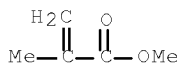
CMF C2 H8 O2 Si



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 474326-39-1 HCAPLUS

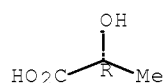
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
dimethylsilanediol and (2R)-2-hydroxypropanoic acid, graft (9CI)
(CA INDEX NAME)

CM 1

CRN 10326-41-7

CMF C3 H6 O3

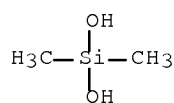
Absolute stereochemistry.



CM 2

CRN 1066-42-8

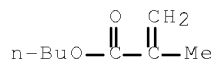
CMF C2 H8 O2 Si



CM 3

CRN 97-88-1

CMF C8 H14 O2



RN 474376-75-5 HCAPLUS

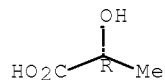
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with dimethylsilanediol and (2R)-2-hydroxypropanoic acid, block, graft (9CI) (CA INDEX NAME)

CM 1

CRN 10326-41-7

CMF C3 H6 O3

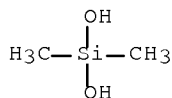
Absolute stereochemistry.



CM 2

CRN 1066-42-8

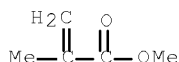
CMF C2 H8 O2 Si



CM 3

CRN 80-62-6

CMF C5 H8 O2



CC 35-4 (Chemistry of Synthetic High Polymers)

IT 474326-37-9P, Dimethylsilanediol-D-lactic acid-methyl
methacrylate graft copolymer 474326-39-1P,
Dimethylsilanediol-D-lactic acid-butyl methacrylate graft copolymer
474376-75-5P, Dimethylsilanediol-D-lactic acid-methyl
methacrylate block graft copolymer

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of graft or block-graft poly(alkyl methacrylate)-g-poly(D-
lactic acid)/poly(di-Me siloxane) using the grafting through
method in ATRP)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L31 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:273670 HCAPLUS Full-text

DOCUMENT NUMBER: 126:252503

ORIGINAL REFERENCE NO.: 126:48793a, 48796a

TITLE: Aqueous polysiloxane compositions for
transparent coatings

INVENTOR(S): Yanagase, Akira; Fujimoto, Masaharu; Taku,
Masayuki; Nagamine, Atsushi

PATENT ASSIGNEE(S): Mitsubishi Rayon Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 09040913	A	19970210	JP 1995-213003	199507 31

PRIORITY APPLN. INFO.: JP 1995-213003

199507
31

AB Title compns. comprise aqueous media containing surfactants and dispersed graft copolymers, which have particle size 20-150 nm and comprise (A) di-Me siloxane segments, (B) vinyl monomer segments, and (C) Si-containing grafting initiator units [C/(A + C) = 0.5-50 mol.%]. Thus, 95 parts cyclic di-Me siloxane oligomer was treated with 5 parts γ -methacryloyloxypropyltrimethoxysilane in H₂O in the presence of Na dodecylbenzenesulfonate and dodecylbenzenesulfonic acid at 85° for 4 h to give a silicone emulsion. Me methacrylate 342, Bu methacrylate 540, and methacrylic acid 18 parts were polymerized in the emulsion using K2S2O8 at 70-80° for 2 h to give an emulsion (particle size 55 nm) giving a coating film with transparency and good appearance.

IT 188666-76-4P, Butyl methacrylate-dimethylsilanediol-methyl acrylate- γ -methacryloyloxypropyltrimethoxysilane-methyl methacrylate graft copolymer 188666-77-5P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (aqueous polysiloxane compns. for transparent coatings)

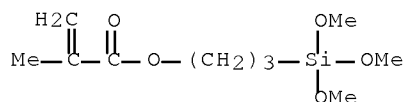
RN 188666-76-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with dimethylsilanediol, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2530-85-0

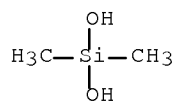
CMF C10 H20 O5 Si



CM 2

CRN 1066-42-8

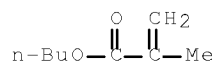
CMF C2 H8 O2 Si



CM 3

CRN 97-88-1

CMF C8 H14 O2



CM 4

CRN 96-33-3

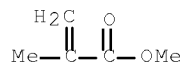
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



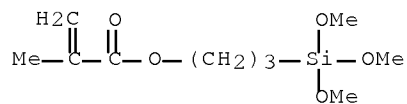
RN 188666-77-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with dimethylsilanediol, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2530-85-0

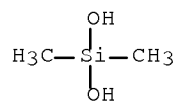
CMF C10 H20 O5 Si



CM 2

CRN 1066-42-8

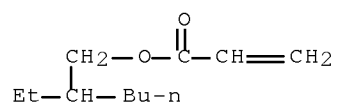
CMF C2 H8 O2 Si



CM 3

CRN 103-11-7

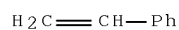
CMF C11 H20 O2



CM 4

CRN 100-42-5

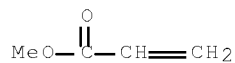
CMF C8 H8



CM 5

CRN 96-33-3

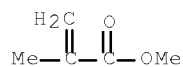
CMF C4 H6 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



IC ICM C09D183-10

ICS C08L083-10; C09D151-00

CC 42-10 (Coatings, Inks, and Related Products)

IT 188666-76-4P, Butyl methacrylate-dimethylsilanediol-methyl
acrylate- γ -methacryloyloxypropyltrimethoxysilane-methyl
methacrylate graft copolymer 188666-77-5P
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(aqueous polysiloxane compns. for transparent coatings)

L31 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:273669 HCAPLUS Full-text
DOCUMENT NUMBER: 126:252502
ORIGINAL REFERENCE NO.: 126:48793a, 48796a
TITLE: Aqueous polysiloxane compositions for stable
transparent coatings
INVENTOR(S): Yanagase, Akira; Fujimoto, Masaharu; Taku,
Masayuki
PATENT ASSIGNEE(S): Mitsubishi Rayon Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 09040912	A	19970210	JP 1995-213002	199507 31
JP 3605446	B2	20041222		
PRIORITY APPLN. INFO.:			JP 1995-213002	199507 31

AB Title compns. comprise graft copolymers, which comprise (A) di-Me siloxane segments, (B) vinyl monomer blocks, and (C) Si-containing grafting initiator units [$C/(A + C) = 1-50$ mol.%], dispersed in aqueous media containing 0.05-2.0% (based on the copolymers) surfactants. Thus, 90 parts cyclic di-Me siloxane oligomer was treated with 10 parts γ -methacryloyloxypropyltrimethoxysilane in H₂O in the presence of Na dodecylbenzenesulfonate and dodecylbenzenesulfonic acid at 85° for 4 h to give a silicone emulsion. Me methacrylate 342, Bu methacrylate 540, and methacrylic acid 18 parts were polymerized in the emulsion using K₂S₂O₈ at 70-80° for 2 h to prepare an emulsion showing good transparency and stability in dilution with Me₂CHOH.

IT 188666-76-4P 188666-77-5P 188666-79-7P
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(aqueous polysiloxane compns. for stable transparent coatings)

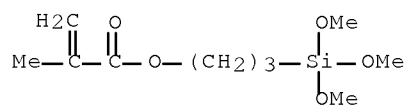
RN 188666-76-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
dimethylsilanediol, methyl 2-methyl-2-propenoate, methyl
2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate,
graft (9CI) (CA INDEX NAME)

CM 1

CRN 2530-85-0

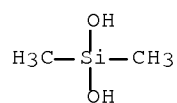
CMF C10 H20 O5 Si



CM 2

CRN 1066-42-8

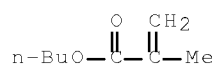
CMF C2 H8 O2 Si



CM 3

CRN 97-88-1

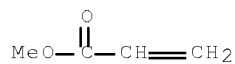
CMF C8 H14 O2



CM 4

CRN 96-33-3

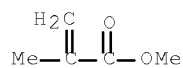
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



July 31, 2008

10/549,708

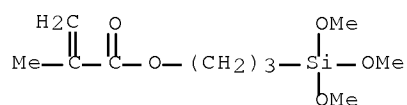
109

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with dimethylsilanediol, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2530-85-0

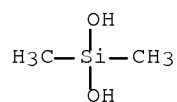
CMF C10 H20 O5 Si



CM 2

CRN 1066-42-8

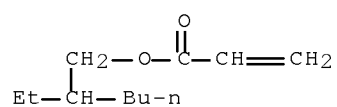
CMF C2 H8 O2 Si



CM 3

CRN 103-11-7

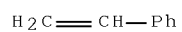
CMF C11 H20 O2



CM 4

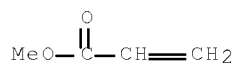
CRN 100-42-5

CMF C8 H8



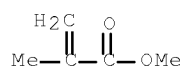
CM 5

CRN 96-33-3
CMF C4 H6 O2



CM 6

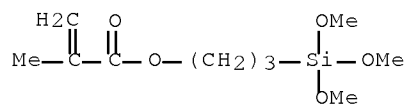
CRN 80-62-6
CMF C5 H8 O2



RN 188666-79-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
dimethylsilanediol, ethenylbenzene, methyl 2-propenoate and
3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA
INDEX NAME)

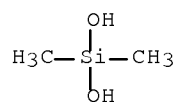
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



CM 2

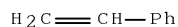
CRN 1066-42-8
CMF C2 H8 O2 Si



CM 3

CRN 100-42-5

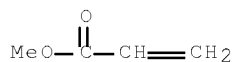
CMF C8 H8



CM 4

CRN 96-33-3

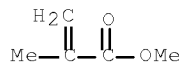
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



IC ICM C09D183-10

ICS C08L083-10; C09D151-00

CC 42-10 (Coatings, Inks, and Related Products)

IT 188666-76-4P 188666-77-5P 188666-79-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(aqueous polysiloxane compns. for stable transparent coatings)

L31 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:233595 HCAPLUS Full-text

DOCUMENT NUMBER: 126:212898

ORIGINAL REFERENCE NO.: 126:41177a, 41180a

TITLE: Vinyl chloride resin molding materials with good moldability

INVENTOR(S): Noda, Osayasu; Imai, Koji; Amano, Ryoza

PATENT ASSIGNEE(S): Shin-Etsu Polymer Co., Ltd., Japan; Inax Corp

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09020852	A	19970121	JP 1995-170651	199507

JP 3517309
PRIORITY APPLN. INFO.:

B2 20040412

JP 1995-170651

06

199507
06

AB Title materials showing good bleeding prevention and antifungal properties, useful for kitchen, bathrooms, toilets, etc., comprise (A) 100 parts vinyl chloride resins, (B) 10-200 parts plasticizers, (C) 1-100 parts acrylic - modified organosiloxanes manufactured by emulsion-graft polymerization of acrylic acid esters and optionally comonomers onto $Z1O(SiR1R2O)m(SiYR3O)nZ2$ [Y = organic groups having radical reactive groups and/or SH groups; Z1, Z2 = H, lower alkyl, SiR4R5R6; m = 0-10,000; n \geq 1; R1-5 = (halogenated) C1-20 hydrocarbyl; R6 = (halogenated) C1-20 hydrocarbyl, organic groups having radical reactive groups and/or SH groups], and (D) 0.1-5 parts bactericides or fungicides. Thus, TK 1300 100, DOP 70, epoxydized soybean oil 3, Chaline R [acrylic siloxane graft polymer] 10, Bactekiller BM 502 (bactericide) 1, a Ca-Zn stabilizer 3, and NaHCO₃ 10 parts were mixed, roll pressed, and hot pressed at 170° to give a sheet showing good moldability, antibacterial properties, and no bleeding after 800 h photoirradn. at 63°.

IT 188002-79-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(Chaline R; vinyl chloride resin compns. containing bactericides, plasticizers, and acrylic siloxane graft polymers with good moldability and bleeding prevention)

RN 188002-79-1 HCAPLUS

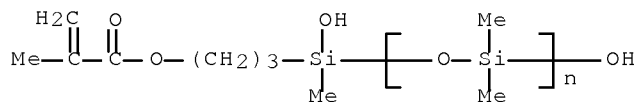
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with α -[hydroxymethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- ω -hydroxypoly[oxy(dimethylsilylene)] and methyl 2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 188002-78-0

CMF (C2 H6 O Si)_n C8 H16 O4 Si

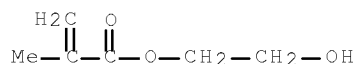
CCI PMS



CM 2

CRN 868-77-9

CMF C6 H10 O3



CM 3

CRN 96-33-3

CMF C4 H6 O2



IT 187977-52-2, Dimethylsilanediol-2-hydroxyethyl methacrylate-methyl acrylate graft copolymer
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
 (vinyl chloride resin compns. containing bactericides, plasticizers, and acrylic siloxane graft polymers with good moldability and bleeding prevention)

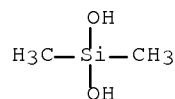
RN 187977-52-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with dimethylsilanediol and methyl 2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

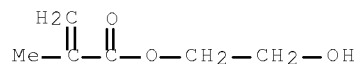
CMF C2 H8 O2 Si



CM 2

CRN 868-77-9

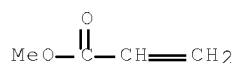
CMF C6 H10 O3



CM 3

CRN 96-33-3

CMF C4 H6 O2



IC ICM C08L027-06
ICS C08K005-00; C08L051-08
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 38
IT 188002-79-1
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(Chaline R; vinyl chloride resin compns. containing bactericides, plasticizers, and acrylic siloxane graft polymers with good moldability and bleeding prevention)
IT 187977-52-2, Dimethylsilanediol-2-hydroxyethyl methacrylate-methyl acrylate graft copolymer
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(vinyl chloride resin compns. containing bactericides, plasticizers, and acrylic siloxane graft polymers with good moldability and bleeding prevention)

L31 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:76820 HCAPLUS Full-text

DOCUMENT NUMBER: 126:90169

ORIGINAL REFERENCE NO.: 126:17413a,17416a

TITLE: Impact-resistant compositions of acrylic polymers, multilayer acrylic polymers, and multilayer silicone rubber-grafted acrylic polymers

INVENTOR(S): Yanagase, Akira; Fujimoto, Masaharu; Nabeshima, Yasuhiko

PATENT ASSIGNEE(S): Mitsubishi Rayon Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 08283526	A	19961029	JP 1995-117621	199504 20
PRIORITY APPLN. INFO.: JP 1995-117621				199504 20

AB Title compns. with transparency, useful for parts of automobiles, industry, and home appliances, etc., consist of 10-90% acrylic polymers and 10-90% mixts. of (A) multilayer acrylic polymers and (B) multilayer polymers comprising (a) composite rubbers of radically polymerized 0.05-25 parts vinyl-polymerizable group-substituted siloxanes and 75-99.95% ≥2 vinyl monomers as

the 1st layers and (b) graft copolymers of ≥ 1 vinyl monomers as the 2nd layers outside. Thus, 95 parts octamethylcyclotetrasiloxane and 5 parts γ -methacryloyloxypropyldimethoxymethylsilane were polymerized in water then 5 parts the resulted emulsion was polymerized with Bu acrylate 79.7, styrene 19.3, and allyl methacrylate 0.9 part to give rubber composite emulsion, 400 parts of which was polymerized with 57 part Me methacrylate and 3 parts Me acrylate to give a silicone rubber-modified acrylic resin. Then, 20 parts the resin was blended with 20 parts Acrypet IR 371 (multilayer acrylic resin) and 60 parts Acrypet VH PMMA, melt-kneaded at 230°, pelletized, and injection-molded to give a test piece showing total light transmittance 92%, haze 1.0%, and notched Izod impact strength 9.4 kg-cm/cm.

IT 185394-20-1P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);

PRP (Properties); PREP (Preparation); USES (Uses)

(multilayer; transparent poly(Me methacrylate) containing silicone

rubber-modified multilayer acrylic resins with impact resistance)

RN 185394-20-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl

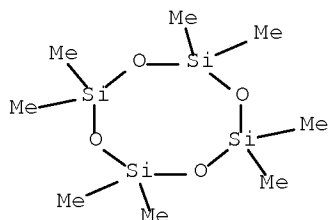
2-propenoate, ethenylbenzene, methyl 2-propenoate and

octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 556-67-2

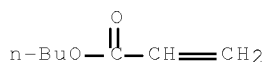
CMF C8 H24 O4 Si4



CM 2

CRN 141-32-2

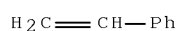
CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8



CM 4

CRN 96-33-3

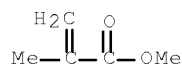
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



IC ICM C08L051-06

ICS C08L033-10

CC 37-3 (Plastics Manufacture and Processing)

IT 185394-20-1P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);

PRP (Properties); PREP (Preparation); USES (Uses)

(multilayer; transparent poly(Me methacrylate) containing silicone rubber-modified multilayer acrylic resins with impact resistance)

L31 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:68979 HCAPLUS Full-text

DOCUMENT NUMBER: 126:75731

ORIGINAL REFERENCE NO.: 126:14655a,14658a

TITLE: Polystyrene resin compositions with improved weather and impact resistance

INVENTOR(S): Iwamoto, Takashi; Kinoshita, Hisashi; Masamoto, Junzo

PATENT ASSIGNEE(S): Asahi Chemical Ind., Japan; Asahi Kasei Chemical Corporation

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 08295770	A	19961112	JP 1995-101202	19950425
JP 3628065	B2	20050309		
PRIORITY APPLN. INFO.:			JP 1995-101202	

199504

25

AB The title compns. contain 50-99% syndiotactic styrene copolymers and 1-50% composites of acrylic rubbers and crosslinked silicone rubbers as cores. Thus, 80 parts syndiotactic polystyrene and 20 parts of an acrylic-silicone composite rubber prepared from 119 parts crosslinked organosiloxane latex of tetraethoxysilane 2, γ -methacryloyloxypropyltrimethoxysilane 0.5, and octamethylcyclotetrasiloxane 97.5 parts, 33.95 parts Bu acrylate, 1.05 parts allyl methacrylate, styrene 22.5, and acrylonitrile 7.5 parts were mixed, melt-kneaded, pelletized, and injection-molded to give a test piece showing Izod impact strength 16.8 kJ/m² and good weather resistance.

IT 185505-20-8P, Acrylonitrile-allyl methacrylate-butyl acrylate- γ -methacryloyloxypropyltrimethoxysilane-octamethylcyclotetrasiloxane-styrene-tetraethoxysilane graft copolymer
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)
 (core-shell, rubber; polystyrene compns. containing acrylic-silicone rubbers with improved impact resistance)

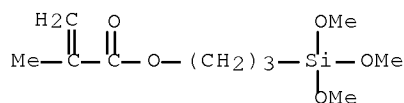
RN 185505-20-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with butyl 2-propenoate, ethenylbenzene, octamethylcyclotetrasiloxane, 2-propenenitrile, silicic acid (H₄SiO₄) tetraethyl ester and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2530-85-0

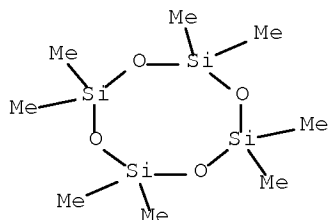
CMF C10 H20 O5 Si



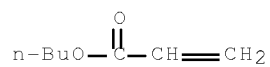
CM 2

CRN 556-67-2

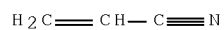
CMF C8 H24 O4 Si4



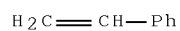
CM 3

CRN 141-32-2
CMF C7 H12 O2

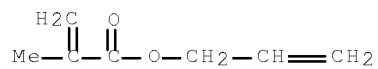
CM 4

CRN 107-13-1
CMF C3 H3 N

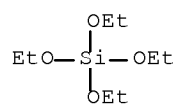
CM 5

CRN 100-42-5
CMF C8 H8

CM 6

CRN 96-05-9
CMF C7 H10 O2

CM 7

CRN 78-10-4
CMF C8 H20 O4 Si

IC ICM C08L025-06
ICS C08L051-08
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 39
IT 185505-20-8P, Acrylonitrile-allyl methacrylate-butyl
acrylate- γ -methacryloyloxypropyltrimethoxysilane-
octamethylcyclotetrasiloxane-styrene-tetraethoxysilane graft
copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
(Properties); PREP (Preparation); USES (Uses)
(core-shell, rubber; polystyrene compns. containing acrylic-silicone
rubbers with improved impact resistance)

L31 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:4541 HCAPLUS Full-text
DOCUMENT NUMBER: 126:32323
ORIGINAL REFERENCE NO.: 126:6559a,6562a
TITLE: Blends of polycarbonates and (meth)acrylic
resins with good weather and cold impact
resistance
INVENTOR(S): Saito, Akihiro; Myake, Hiroshi
PATENT ASSIGNEE(S): GE Plastics Japan Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

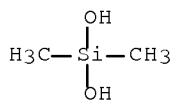
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 08269314	A	19961015	JP 1995-101668	199504 04
PRIORITY APPLN. INFO.: JP 1995-101668				199504 04

AB Title blends, having heat resistance and moldability, and useful for
automobile parts, elec. or electronic device housing, and building materials,
etc., comprise 100 parts mixts. of 1-99 parts polycarbonates and/or polyester-
polycarbonates and 99-1 parts (meth)acrylic resins, and 0.5-50 parts siloxane
and alkyl (meth)acrylate polymer composite rubbers grafted by vinyl monomers.
Thus, a blend of Lexan (a bisphenol A polycarbonate) 65, Sumipex LG (PMMA) 20,
Metablen S 2001 (Me methacrylate-Bu acrylate-dimethylsiloxane graft copolymer)
15, and UV 5411 (UV absorber) 0.5 part was injection molded to give test
pieces showing Izod impact strength 50 kg-cm/cm at -30°, and discoloration
prevention under 1000-h exposure to sunshine weatherometer.

IT 171188-19-5, Butyl acrylate-dimethylsilanediol-methyl
methacrylate graft copolymer
RL: MOA (Modifier or additive use); USES (Uses)
(polycarbonate-(meth)acrylic resin blends with good weather and
cold impact resistance)
RN 171188-19-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate and 1,1-dimethylsilanediol, graft (CA INDEX NAME)

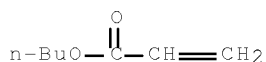
CM 1

CRN 1066-42-8
CMF C2 H8 O2 Si



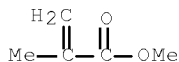
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM C08L069-00
ICS C08L069-00; C08K005-00; C08L033-06; C08L051-08; C08L067-00
CC 37-6 (Plastics Manufacture and Processing)
IT 149718-92-3, Metablen S 2001 171188-19-5, Butyl
acrylate-dimethylsilanediol-methyl methacrylate graft copolymer
RL: MOA (Modifier or additive use); USES (Uses)
(polycarbonate-(meth)acrylic resin blends with good weather and
cold impact resistance)

L31 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:569402 HCAPLUS Full-text
DOCUMENT NUMBER: 125:198744
ORIGINAL REFERENCE NO.: 125:37165a,37168a
TITLE: Coatings for prevention of friction noise
INVENTOR(S): Teratake, Koji; Hasuike, Tamiichi
PATENT ASSIGNEE(S): Tsucha KK, Japan; Tsuchiya Co., Ltd.; Mikasa
Paint K.K.
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

July 31, 2008

10/549,708

121

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08183945	A	19960716	JP 1994-327640	19941228
JP 3606929	B2	20050105	JP 1994-327640	19941228

PRIORITY APPLN. INFO.:

AB The flexible coatings, useful for automobile interiors, etc., comprise 1 part silicone-modified acrylic resins and 0.25-9 parts urethane polymers. Thus, a composition comprising 4.0 parts Me methacrylate-grafted di-Me siloxane and 1.0 part polyester- polyurethane-polyurea dissolved in PhMe/Me2CHOH/ethylene glycol mono-Bu ether was sprayed on a ABS resin plate to form a coating showing static friction coefficient 0.22 against the other ABS resin and 0.17 against a PVC leather and kinetic friction coefficient 0.16 against ABS and 0.10 against PVC.

IT 161512-62-5, Dimethylsilanediol-methyl methacrylate graft copolymer

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(silicone-modified acrylic polymer-polyurethane blend coatings for friction noise prevention)

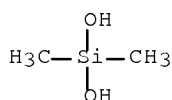
RN 161512-62-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dimethylsilanediol, graft (CA INDEX NAME)

CM 1

CRN 1066-42-8

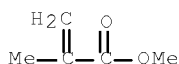
CMF C2 H8 O2 Si



CM 2

CRN 80-62-6

CMF C5 H8 O2



IC ICM C09K003-00

ICS C08L051-08; C08L075-04; C09D151-08; C09D175-04; C10M149-18; C10M155-02

ICI C10N030-06

CC 42-10 (Coatings, Inks, and Related Products)

IT 161512-62-5, Dimethylsilanediol-methyl methacrylate graft copolymer
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(silicone-modified acrylic polymer-polyurethane blend coatings for friction noise prevention)

L31 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:52705 HCAPLUS Full-text

DOCUMENT NUMBER: 124:88281

ORIGINAL REFERENCE NO.: 124:16591a,16594a

TITLE: Composite rubber graft copolymers and vinyl chloride resin compositions using the same with improved processability

INVENTOR(S): Yanagase, Akira; Ito, Koichi; Kuwano, Hideaki

PATENT ASSIGNEE(S): Mitsubishi Rayon Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 07286016	A	19951031	JP 1994-101719	19940418
JP 3405810	B2	20030512	JP 1994-101719	19940418

PRIORITY APPLN. INFO.: JP 1994-101719

AB The title copolymers are obtained by grafting vinyl monomers on composites of silicone rubbers and (meth)acrylate rubbers to X value 0.2-3.5 [X = (R/2)[(100/A)^{1/3} - [(A + B)/A]^{1/3}] and have silicone content 0.1-12% [R = number-average particle diameter (nm) of silicone obtained by semi-elastic light scattering method; A = silicone content (%); B = (meth)acrylate rubber monomer content (%)]. A mixture of 86 parts Bu acrylate and 2 parts allyl methacrylate was radical-polymerized in water in the presence of 11 parts siloxane (from 0.5 part γ -methacryloyloxypropyldimethoxysilane and 99.5 parts octamethylcyclotetrasiloxane) to obtain a composite rubber which was then grafted with 10 parts Me methacrylate. A PVC composition containing the above graft copolymer had gel time 220 s and Izod impact strength 75 kg-cm/cm.

IT 129669-62-1P 171104-34-0P 172683-83-9P
172683-84-0P

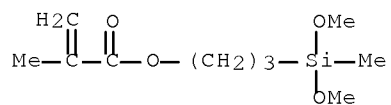
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(composite rubber graft copolymers and vinyl chloride resin compns. using the same with improved processability)

RN 129669-62-1 HCAPLUS

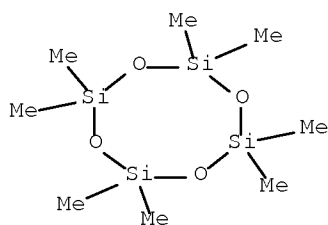
CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, 2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane, 2-propen-1-yl 2-methyl-2-propenoate and silicic acid (H₄SiO₄) tetraethyl ester (CA INDEX NAME)

CRN 14513-34-9
 CMF C10 H20 O4 Si



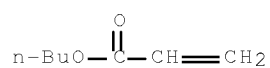
CM 2

CRN 556-67-2
 CMF C8 H24 O4 Si4



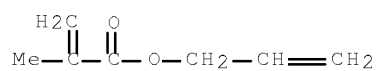
CM 3

CRN 141-32-2
 CMF C7 H12 O2



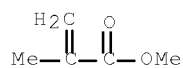
CM 4

CRN 96-05-9
 CMF C7 H10 O2



CM 5

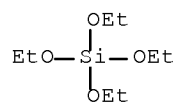
CRN 80-62-6
 CMF C5 H8 O2



CM 6

CRN 78-10-4

CMF C8 H20 O4 Si



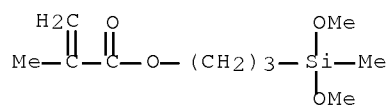
RN 171104-34-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester,
polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate,
octamethylcyclotetrasiloxane and 2-propenyl 2-methyl-2-propenoate,
graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

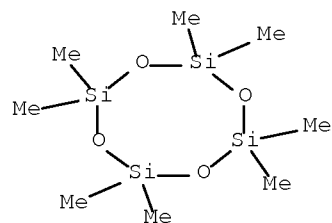
CMF C10 H20 O4 Si



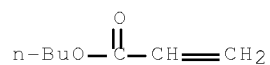
CM 2

CRN 556-67-2

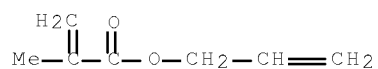
CMF C8 H24 O4 Si4



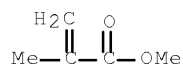
CM 3

CRN 141-32-2
CMF C7 H12 O2

CM 4

CRN 96-05-9
CMF C7 H10 O2

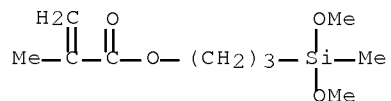
CM 5

CRN 80-62-6
CMF C5 H8 O2

RN 172683-83-9 HCAPLUS

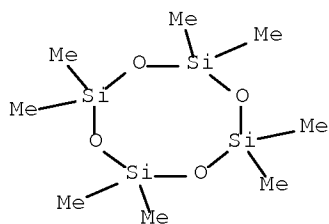
CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester,
polymer with butyl 2-propenoate, ethenylbenzene,
octamethylcyclotetrasiloxane, 2-propenenitrile and 2-propenyl
2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9
CMF C10 H20 O4 Si

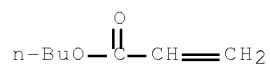
CM 2

CRN 556-67-2
CMF C8 H24 O4 Si4



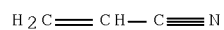
CM 3

CRN 141-32-2
CMF C7 H12 O2



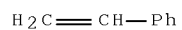
CM 4

CRN 107-13-1
CMF C3 H3 N



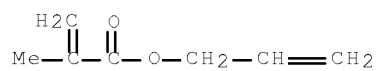
CM 5

CRN 100-42-5
CMF C8 H8



CM 6

CRN 96-05-9
CMF C7 H10 O2



July 31, 2008

10/549,708

127

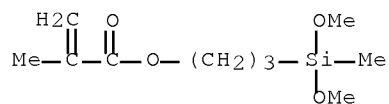
RN 172683-84-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, ethenylbenzene, octamethylcyclotetrasiloxane and 2-propenyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 14513-34-9

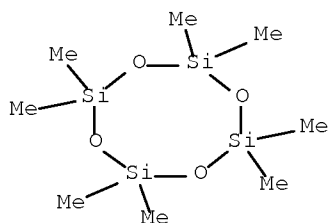
CMF C10 H20 O4 Si



CM 2

CRN 556-67-2

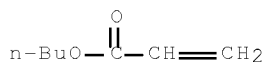
CMF C8 H24 O4 Si4



CM 3

CRN 141-32-2

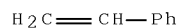
CMF C7 H12 O2



CM 4

CRN 100-42-5

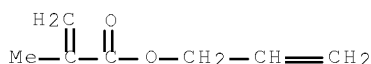
CMF C8 H8



CM 5

CRN 96-05-9

CMF C7 H10 O2



IC ICM C08F285-00

ICS C08L027-06

ICI C08L027-06, C08L051-08

CC 35-8 (Chemistry of Synthetic High Polymers)

IT 129669-62-1P 171104-34-0P 172683-83-9P

172683-84-0P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(composite rubber graft copolymers and vinyl chloride resin compns. using the same with improved processability)

L31 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:375083 HCAPLUS Full-text

DOCUMENT NUMBER: 122:268295

ORIGINAL REFERENCE NO.: 122:48933a, 48936a

TITLE: Coatings of addition-polymerized siloxanes releasable from attached films

INVENTOR(S): Oomura, Naoki; Ooba, Toshio

PATENT ASSIGNEE(S): Shinetsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 06329987	A	19941129	JP 1993-121477	19930524
JP 2904676	B2	19990614		
PRIORITY APPLN. INFO.:			JP 1993-121477	19930524

AB Title paintable coatings comprise siloxane-modified acrylic polymers having ≥ 2 Si directly linked to vinyl groups, hydrogen siloxanes including ≥ 2 SiH, and addition polymerization catalysts. Thus, 20 parts 5% toluene solution of 250:125:125:5 copolymer of Et acrylate, Bu acrylate, methoxyethyl acrylate, and cyclotetra(methylvinylsiloxane) adduct with methacrylic acid, 0.0069 part Me₃Si-terminated Me hydrogen siloxane, 0.03 part 2-methyl-3-trimethylsiloxy-3-butyne, and 100 ppm vinylsiloxane-chloroplatinic acid complex were mixed, applied onto a polyethylene-laminated paper, and cured to give a film showing

good paintability with oil writing ink, which was left at 25° and 60% relative humidity for 1 day then pressed with a Lumirror 31B tape at 70° to give a test piece showing peeling strength 28 g/2.5 cm at room temperature

IT 163004-17-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(coatings prepared by addition reaction of vinylsiloxanes and hydrogen siloxanes with good releasability and paintability)

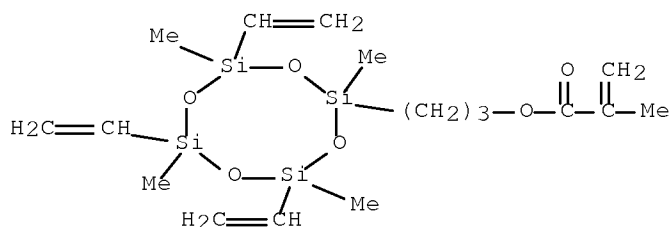
RN 163004-17-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(4,6,8-triethenyl-2,4,6,8-tetramethylcyclotetrasiloxan-2-yl)propyl ester, polymer with butyl 2-propenoate, ethyl 2-propenoate, 2-methoxyethyl 2-propenoate and methylsilanediol, graft (9CI) (CA INDEX NAME)

CM 1

CRN 113673-39-5

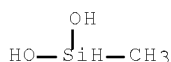
CMF C17 H32 O6 Si4



CM 2

CRN 43641-90-3

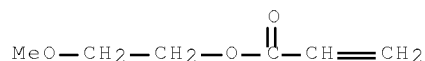
CMF C H6 O2 Si



CM 3

CRN 3121-61-7

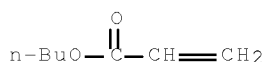
CMF C6 H10 O3



CM 4

CRN 141-32-2

CMF C7 H12 O2



CM 5

CRN 140-88-5

CMF C5 H8 O2



IC ICM C09D183-04
ICS C08L083-05; C08L083-07; C09J007-02
CC 42-10 (Coatings, Inks, and Related Products)
IT 163004-17-9P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(coatings prepared by addition reaction of vinylsiloxanes and hydrogen siloxanes with good releasability and paintability)

L31 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:95195 HCAPLUS Full-text
DOCUMENT NUMBER: 122:32963
ORIGINAL REFERENCE NO.: 122:6475a,6478a
TITLE: PVC molding materials
INVENTOR(S): Oohata, Hiroyuki; Endo, Fumio
PATENT ASSIGNEE(S): Shin-Etsu Polymer Co., Ltd., Japan; Nisshin Kagaku Kogyo Kk
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 06179788	A	19940628	JP 1992-352892	19921214
PRIORITY APPLN. INFO.:				19921214

AB Antistatic molding materials resistant to fouling and friction comprise (A) 100 parts PVC, (B) 5-150 parts polycarboxylic acid ester plasticizers, and (C) 5-100 parts acrylate-modified siloxanes prepared by emulsion graft copolymn. of (a) siloxanes containing 0.01-0.1 mol% (meth)acryloylalkyl group-containing siloxane units and (b) Me methacrylate (I) and ≤10 mol% (on I) 2-hydroxyethyl

(meth)acrylate and/or 2-hydroxypropyl (meth)acrylate at a/b weight ratio 4:6 to 8:2. Thus, a 30%-solids emulsion containing I-grafted octamethylcyclotetrasiloxane- (methacryloyloxypropyl)methylsiloxane hydrolytic copolymer 30, TX 1300 (PVC) 100, diisononyl phthalate 50, epoxidized soybean oil 3, CaCO₃ 10, and Ba-Zn-type stabilizer 3 parts were kneaded at 150°, extruded to a sheet, heated at 170°, and pressed to give a tack-free test piece.

IT 138751-27-6P, Methyl methacrylate-octamethylcyclotetrasiloxane graft copolymer 157017-30-6P
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (tack-free PVC moldings containing acrylate-modified polysiloxanes and plasticizers)

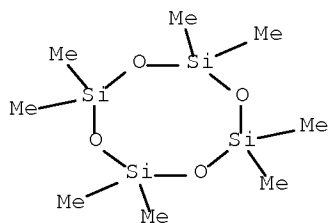
RN 138751-27-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2,2,4,4,6,6,8,8-octamethylcyclotetrasiloxane, graft (CA INDEX NAME)

CM 1

CRN 556-67-2

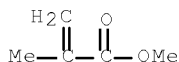
CMF C8 H24 O4 Si4



CM 2

CRN 80-62-6

CMF C5 H8 O2



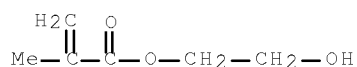
RN 157017-30-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with methyl 2-methyl-2-propenoate and octamethylcyclotetrasiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

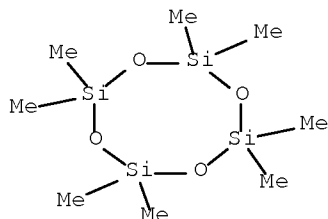
CMF C6 H10 O3



CM 2

CRN 556-67-2

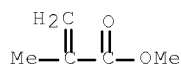
CMF C8 H24 O4 Si4



CM 3

CRN 80-62-6

CMF C5 H8 O2



IC ICM C08L027-06

ICS C08K005-10; C08L051-08

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38

IT 138751-27-6P, Methyl methacrylate-

octamethylcyclotetrasiloxane graft copolymer 157017-30-6P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(tack-free PVC moldings containing acrylate-modified polysiloxanes and plasticizers)

L31 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:158104 HCAPLUS Full-text

DOCUMENT NUMBER: 106:158104

ORIGINAL REFERENCE NO.: 106:25739a,25742a

TITLE: Polysiloxane-grafted copolymer release coating on sheet materials and adhesive tapes

INVENTOR(S): Clemens, Lawrence M.; Kantner, Steven S.; Mazurek, Mieczyslaw H.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA

SOURCE: Eur. Pat. Appl., 52 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

July 31, 2008

10/549,708

133

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
EP 210041	A2	19870128	EP 1986-305453	198607 16
EP 210041	A3	19890322		
EP 210041	B1	19920311		
R: CH, DE, FR, GB, IT, LI				
US 4728571	A	19880301	US 1985-757278	198507 19
CA 1277875	C	19901218	CA 1986-513452	198607 10
JP 62022881	A	19870131	JP 1986-169641	198607 18
JP 2537806	B2	19960925		
JP 08239432	A	19960917	JP 1995-228501	199508 02
PRIORITY APPLN. INFO.:			US 1985-757278	A 198507 19

AB Title coated sheet providing predictable release from a tape comprises a flexible sheet and a vinyl copolymer grafted with monovalent siloxane moieties with number-average mol. wt. (Mn) 1000. Release compns. are prepared by graft polymerizing Bu methacrylate 90, acrylic acid 5, and siloxane (prepared by living polymerization of hexamethylcyclotrisiloxane endcapped with methacrylate to Mn 15,000) 5 parts in 30.0 g Et acetate solution containing 0.06 g Vazo 64 at 55° for 60 h. The graft copolymer solution applied to primed poly(ethylene terephthalate) backing had releasability 0.2 N/100 mm from SBR/crepe paper adhesive tape, vs. 44 for a control release coating from 95:5 Bu methacrylate-acrylic acid copolymer.

IT 107653-83-8 107668-09-7 107668-10-0
107668-11-1 107668-12-2 107668-13-3
107668-15-5 107668-16-6 107668-17-7

RL: USES (Uses)

(release coating, on flexible support, with controllable peelability from pressure sensitive adhesive)

RN 107653-83-8 HCAPLUS

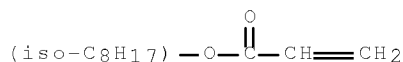
CN 2-Propenoic acid, isooctyl ester, polymer with hexamethylcyclotrisiloxane and octadecyl 2-propenoate, graft (9CI)
(CA INDEX NAME)

CM 1

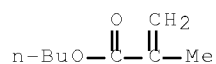
CRN 29590-42-9

CMF C11 H20 O2

CCI IDS



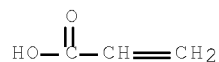
CMF C8 H14 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



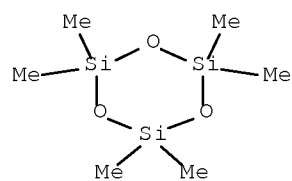
RN 107668-10-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
 hexamethylcyclotrisiloxane and 2-propenoic acid, graft (9CI) (CA
 INDEX NAME)

CM 1

CRN 541-05-9

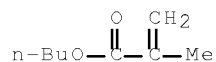
CMF C6 H18 O3 Si3



CM 2

CRN 97-88-1

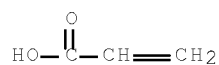
CMF C8 H14 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



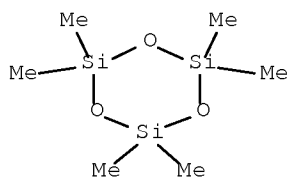
RN 107668-11-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
hexamethylcyclotrisiloxane and 2-propenamamide, graft (9CI) (CA INDEX
NAME)

CM 1

CRN 541-05-9

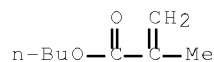
CMF C6 H18 O3 Si3



CM 2

CRN 97-88-1

CMF C8 H14 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O



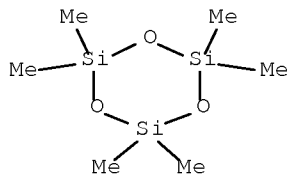
RN 107668-12-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
1-ethenyl-2-pyrrolidinone and hexamethylcyclotrisiloxane, graft
(9CI) (CA INDEX NAME)

CM 1

CRN 541-05-9

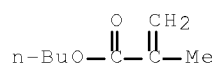
CMF C6 H18 O3 Si3



CM 2

CRN 97-88-1

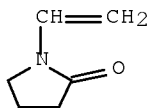
CMF C8 H14 O2



CM 3

CRN 88-12-0

CMF C6 H9 N O



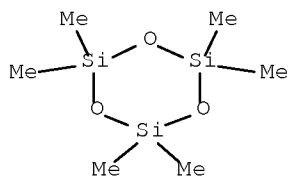
RN 107668-13-3 HCAPLUS

CN 2-Propenoic acid, ethyl ester, polymer with
hexamethylcyclotrisiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 541-05-9

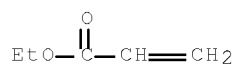
CMF C6 H18 O3 Si3



CM 2

CRN 140-88-5

CMF C5 H8 O2



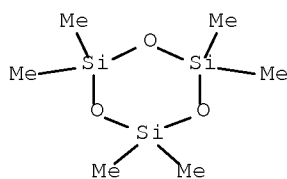
RN 107668-15-5 HCAPLUS

CN 2-Propenoic acid, polymer with ethenylbenzene and
hexamethylcyclotrisiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 541-05-9

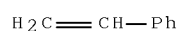
CMF C6 H18 O3 Si3



CM 2

CRN 100-42-5

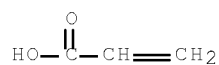
CMF C8 H8



CM 3

CRN 79-10-7

CMF C3 H4 O2



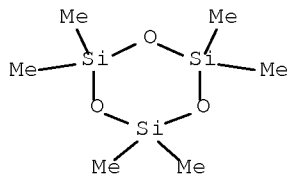
RN 107668-16-6 HCAPLUS

CN 2-Propenoic acid, methyl ester, polymer with
hexamethylcyclotrisiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 541-05-9

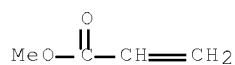
CMF C6 H18 O3 Si3



CM 2

CRN 96-33-3

CMF C4 H6 O2



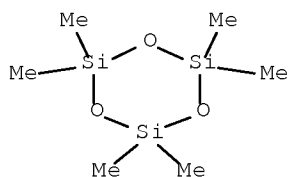
RN 107668-17-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-methyl-2-propenoate and hexamethylcyclotrisiloxane, graft (9CI)
(CA INDEX NAME)

CM 1

CRN 541-05-9

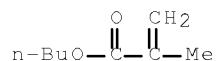
CMF C6 H18 O3 Si3



CM 2

CRN 97-88-1

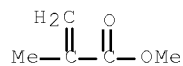
CMF C8 H14 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



IC ICM C08F291-00

ICS C09J007-02

ICI C08F291-00, C08F230-08

CC 42-10 (Coatings, Inks, and Related Products)

Section cross-reference(s): 35, 38

IT 107653-83-8 107668-09-7 107668-10-0

107668-11-1 107668-12-2 107668-13-3

107668-14-4 107668-15-5 107668-16-6

107668-17-7

RL: USES (Uses)

(release coating, on flexible support, with controllable
peelability from pressure sensitive adhesive)

=>